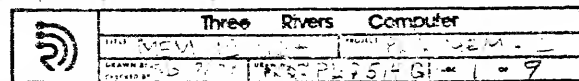


COLUMN WRITE @

	1	2	3	4
1	u1	743374	4	✓
2	2	u PD 416 C2	20	
3	3	↑	20	
4	4		↑	
5	5	sub. parts		
6	6	(MK 4116-3)(F16K4DC)		
7	7		↓	
8	8		20	
9	9	u PD 416 C2	20	✓
10	10	743241	3	✓
11	11	743374	4	
12	12	u PD 416 C2	20	✓
13	13	↑	↑	
14	14			
15	15	sub. parts		
16	16	(MK 4116-3)(F16K4DC)		
17	17		↓	
18	18		20	
19	19	u PD 416 C2	20	✓
20	20	74LS166 (16 PIN SOCKET)	10	
21	21	743374	5	
22	22	743241	3	
23	23	u PD 416 C2	20	
24	24	↑	↑	
25	25			
26	26	sub. parts		
27	27	(MK 4116-3)(F16K4DC)		
28	28		↓	
29	29		20	
30	30	u PD 416 C2	20	
31	31	743374	5	
32	32	u PD 416 C2	20	
33	33	↑	↑	
34	34			
35	35	sub. parts		
36	36	(MK 4116-3)(F16K4DC)		
37	37		↓	
38	38		20	
39	39	u PD 416 C2	20	
40	40	74LS166 (16 PIN SOCKET)	10	



WRITE
COLUMN

	1	2	3	4
1	41	748374	8	
2	42	μPD416C2	20	
3	43	↑	↑	
4	44			
5	45	sub parts		
6	46	(MK4116-3)(F16K4DC)		
7	47	↓	↓	
8	48		20	
9	49	μPD416C2	20	
10	50	748374	7	
11	51	748374	5	
12	52	μPD416C2	20	
13	53	↑	↑	
14	54			
15	55	sub parts		
16	56	(MK4116-3)(F16K4DC)		
17	57	↓	↓	
18	58		20	
19	59	μPD416C2	20	
20	60	74LS166 (16 PIN SOCKET)	9	
21	61	SPARE		
22	62	μPD416C2	20	
23	63	↑	↑	
24	64			
25	65	sub. parts		
26	66	(MK4116-3)(F16K4DC)		
27	67	↓	↓	
28	68		20	
29	69	μPD416C2	20	
30	70	748374	7	
31	71	748374	14	
32	72	μPD416C2	20	
33	73	↑	↑	
34	74			
35	75	sub. parts		
36	76	(MK4116-3)(F16K4DC)		
37	77	↓	↓	
38	78		20	
39	79	μPD416C2	20	
40	80	76LS166 (16 PIN SOCKET)	9	

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Three Rivers Computer	
ITEM NO. 10	QUANTITY 1
DESCRIPTION 74LS166	DATE 12-15-79

COLUMN WRITE


			1	2	3	4
1	81	74LS280	6			
2	82	74LS374	4			
3	83	MPD416C2	20			
4	84		↑			
5	85					
6	86	sub. parts				
7	87	(MK4116-3)(F16K4DC)				
8	88					
9	89		↓			
10	90	MPD416C2	20			
11	91	74LS166 (16 PIN SOCKET)	18			
12	92	74LS374	8			
13	93	74LS374	14			
14	94	74LS374	4			
15	95	MPD416C2	20			
16	96		↑			
17	97					
18	98					
19	99					
20	100					
21	101	sub. parts				
22	102	(MK4116-3)(F16K4DC)				
23	103					
24	104					
25	105					
26	106					
27	107					
28	108					
29	109		↓			
30	110	MPD416C2	20			
31	111	74LS166 (16 PIN SOCKET)	18			
32	112	74LS374	8			
33	113	74LS374	5			
34	114	MPD416C2	20			
35	115		↑			
36	116	sub. parts				
37	117	(MK4116-3)				
38	118	(F16K4DC)				
39	119		↓			
40	120	MPD416C2	20			

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Three Rivers Computer	
ITEM MEM 1016	QUANTITY 500 MEM-C
DESIGNED BY	DATE 7-17-79
FILED BY	FILED BY PL-251631
	PAGE 3 OF 9

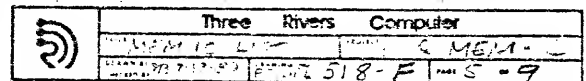
PERU Memory Board
12/15/79 Rap
4099

LINE NO.	DESCRIPTION	QTY
1	121 uPD416C2 (FIGK4DC) (MK4116-3)	20
2	122 74 374	7
3	123 uPD416C2	20
4	124	↑
5	125	↓
6	126 sub. parts	
7	127 (MK4116-3)	
8	128 (FIGK4DC)	
9	129	↓
10	130 uPD416C2	20
11	131 74 28166 (16 PIN SOCKET)	9
12	132 74 374	7
13	133 74 74	14
14	134 74 374	5
15	135 uPD416C2	20
16	136	↑
17	137	↓
18	138 sub. parts	
19	139 (MK4116-3)	
20	140 (FIGK4DC)	
21	141	↓
22	142 uPD416C2	20
23	143 SPARE	
24	144 74 51	3,6
25	145 uPD416C2	20
26	146	↑
27	147	↓
28	148 sub. parts	
29	149 (MK4116-3)	
30	150 (FIGK4DC)	
31	151	↓
32	152 uPD416C2	20
33	153 74 28166 (16 PIN SOCKET)	9
34	154 74 250	6
35	155 uPD416C2	20
36	156 sub. parts	
37	157 (MK4116-3)	
38	158 (FIGK4DC)	
39	159	↓
40	160 uPD416C2	20




COLUMN WRITE

			1	2	3	4
1	161	uPD416C2 (MK4116-3) (FIGK4DC)	20			
2	162	uPD416C2 (MK4116-3) (FIGK4DC)	20			
3	163	74 8175	6			
4	164	74 8153	6			
5	165	74 8258	14			
6	166	74 874	3			
7	167	uPD416C2	20			
8	168		↑			
9	169	sub parts				
10	170	(MK4116-3)				
11	171	(FIGK4DC)				
12	172					
13	173		↓			
14	174	uPD416C2	20			
15	175	74 8139	6, 26			
16	176	74 874	3			
17	177	74 808	3			
18	178	STATIC				
19	179	74 804	16			
20	180		16			
21	181		16			
22	182		16			
23	183		17			
24	184		17			
25	185		17			
26	186		17			
27	187		18			
28	188		18			
29	189		18			
30	190		15			
31	191		19			
32	192		19			
33	193		19			
34	194	74 804	19			
35	195	74 8258	15			
36	196		15			
37	197		14			
38	198		14			
39	199	74 8258	14			
40	200	STATIC				



PERQ Memory Board
12/15/79 Rap
6989

10

	Three Rivers Computer			
	ITEM NO LIST		ITEM NO LIST	
	ITEM NO	DESCRIPTION	ITEM NO	DESCRIPTION
	100-0000	100-0000	100-0000	100-0000

WRITE

			1	2	3	4
1	241	XTAL K1100A (14 PIN SOCKET)	24			
2	242					
3	243	74\$04	26, 25			
4	244	74L\$163	26			
5	245	HMI-7649-B5546 (CAM 27\$29) (20 PIN SOCKET)	26			
6	246	74\$374	26			
7	247	74\$225	13			
8	248	74\$225	13			
9	249	74\$374	13			
10	250	74\$112	12			
11	251	74\$00	12, 23, 25			
12	252	74\$112	12			
13	253	74\$20	12			
14	254	74\$112	26			
15	255	74\$162	26			
16	256	HMI-7649-B5546 (CAM 27\$29) (20 PIN SOCKET)	26			
17	257	74\$374	26			
18	258	74\$374	11			
19	259	74\$32	13, 25			
20	260	S.M.C.				
21	261	7643-5 (18 PIN SOCKET)	11			
22	262	7643-5 (18 PIN SOCKET)	11			
23	263	7643-5 (18 PIN SOCKET)	11			
24	264	74\$374	11			
25	265	74\$225	11			
26	266	74\$225	11			
27	267	74\$32	11, 12			
28	268	74\$195	12			
29	269	74\$195	12			
30	270	74\$37	12, 25			
31	271	S.M.C.				
32	272	74\$74	26			
33	273	74\$08	26			
34	274	74\$74	26			
35	275	74\$280	3			
36	276	74\$280	3			

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Three Rivers Computer	
MEM 02	FILE 02
DATE 10/14/80	TIME 10:20
PAGE 7-9	

REV D 10/14/80 DIV

CO. CAN WRITE

7/17/80

PRQ-PCB-MEM-C

RESISTORS

8 of 9

Resistor	Value	Page
R1	RC07GF102J 1K	3
R2	REMOVED ON ECO MEM-C-007	
R3	RC07GF102J 1K	3
R4	RC07GF470J 47 Ω	9
R5	RC07GF102J 1K	6
R6	RC07GF102J 1K	14
R7	785-3-R33 (33 Ω) (4310R-102-330)(33 Ω)	16
R8		↑
R9		↑
R10		16
R11		17
R12		↑
R13	NOTE: ANOTHER SUITABLE SUBSTITUTE IS 785-3-R22(22 Ω)	↑
R14		17
R15		18
R16		↑
R17		↑
R18		18
R19		19
R20		↑
R21		↑
R22	785-3-R33 (33 Ω) (4310R-102-330)	19
R23	RC07GF102J 1K	25
R24	JA41J1 THERMISTOR	23
R25	RC07GF102J 1K	14
R26		22
R27		22
R28		23
R29		26
R30	RC07GF102J 1K	12
R31	RC07GF330J 33 Ω	26
R32	RC07GF102J 1K	12
R33	RC07GF330J 33 Ω	26
R35	RC07GF102J 1K	26
R36		27
R37	RC07GF102J 1K	24
R38	RC07GF330J 33 Ω	24
R39	RC07GF100J 10 Ω	24
R40	CB4G-75 4.7 Ω	24

3

Three Rivers Computer	
DESIGNED BY	PRQ-MEM-C
CHECKED BY	7/17/80
DATE	7/17/80
FILE	PLD513E
REV	3 of 9

7/16/80 VS

PRQ-PCB-MEM-C

COMPONENTS

9 of 9

WRITE @
COLUMN

1 2 3 4

1	D 1	REMOVED ON ECO. MEM-C-007		
2	D 2	1N4004	24	
3	D 3	1N9004	24	
4	C 1	DD270 27pf	12	
5	C 2	DD102 .001uf	24	
6	C 3	.01mf	24	(THIS CAPACITOR IS ONE OF THE 169 BYPASS LISTED BELOW)
7	C 4	DD101 100pf	24	
8	C 5	DD181 180pf	24	
9				
10	QTY	CAPACITOR		
11	154	202A0022.5M1 BYPASS 2.2 TANTULUM		
12	169	CY15C103M BYPASS .01		
13				
14	L 1	WEE-1.0uH 1uH	24	
15	L 2	WEE-1.0uH 1uH	24	
16	L 3	6317-4 (coil)(0.08uH)	24	
17				
18	Q 1	2N3866	24	
19	Q 2	LM 79L05ACZ	20	
20	1	514AG37D or 814AG11D socket	U241	
21	8	516AG37D or 816AG11D socket	U20, 40, 60, 80, 91, 111, 131, 153	
22	3	518AG37D or 818AG11D socket	U261, 262, 263	
23	4	520AG37D or 820AG11D socket	U218, 230, 245, 256	
24				
25				
26	1	3041 SPACER	(METAL BODY TRANSISTOR [Q1] SPACER)	
27			INSULATED SPACER TO LIFT Q1 OFF	
28			TRACES OF BOARD.	
29				
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REV F 1/15/81 RAC

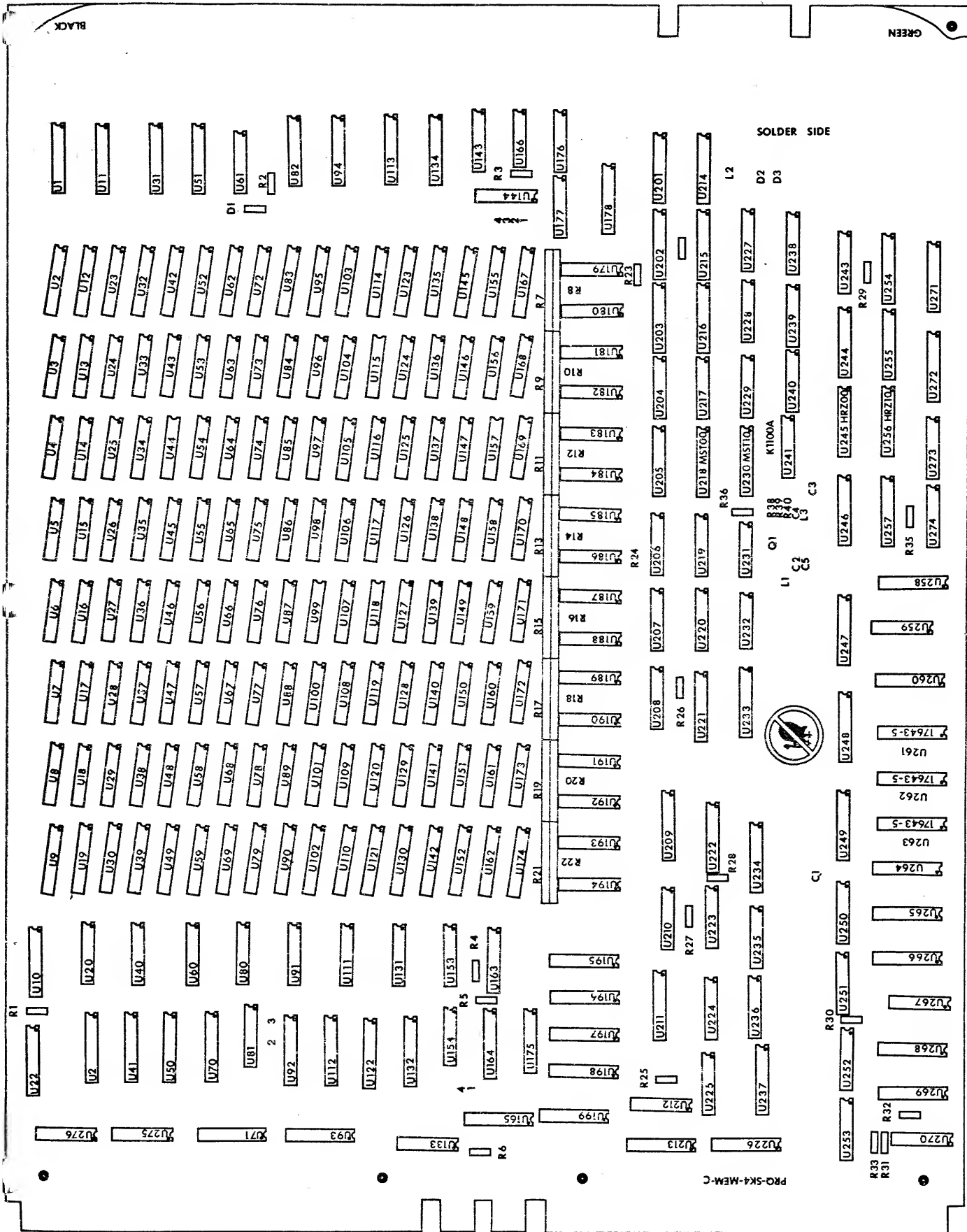
REV E 1/15/81 STV

REV D 10/24/80 DW



Three Rivers Computer

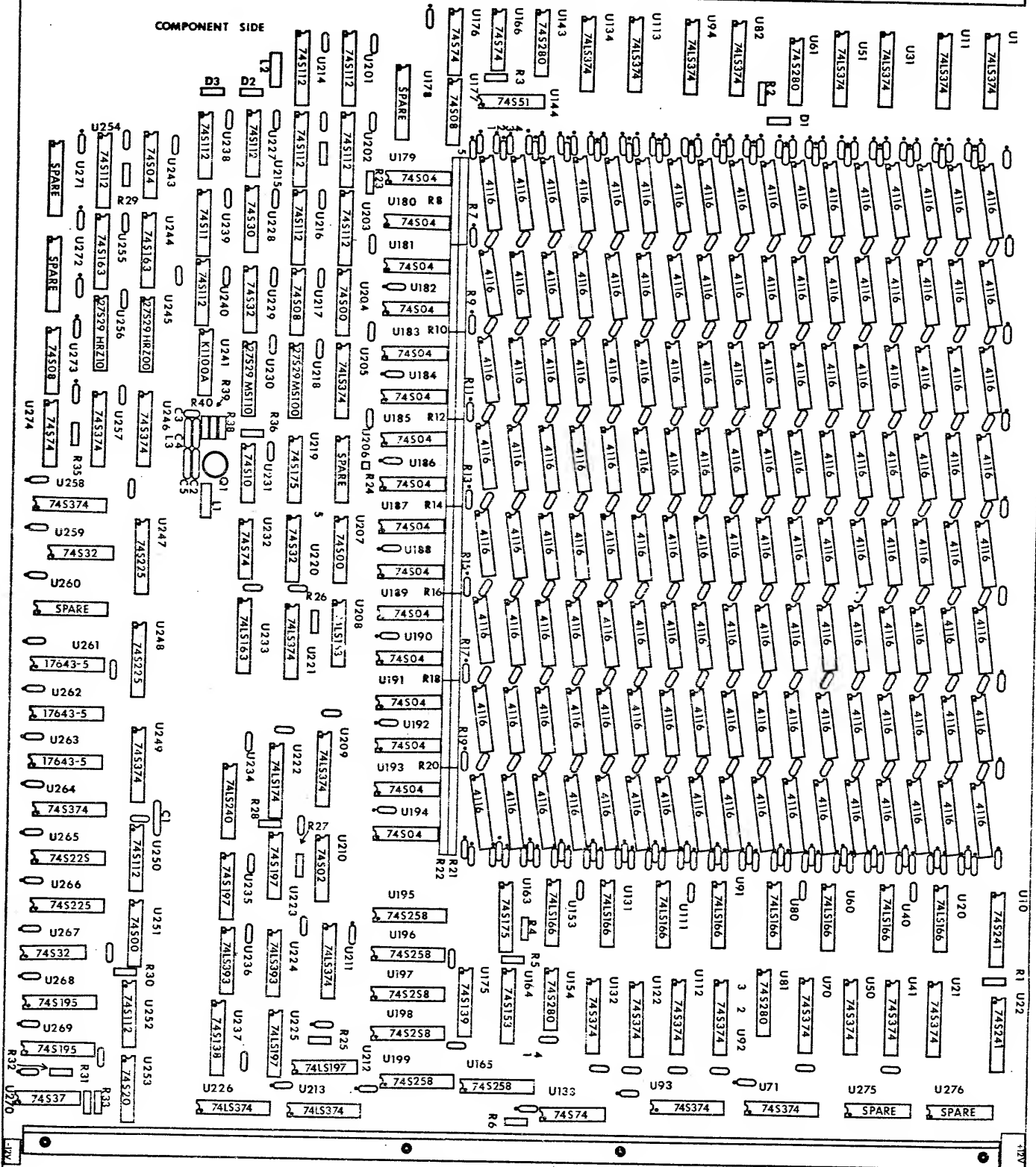
MEMORANDUM
DATE: 10/24/80 BY: STV
PAGE 2 of 9



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PRQ-SKI-MEM-C

COMPONENT SIDE




PRQ-PCB-MEM-C
SUBASSEMBLY DIRECTORY


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Three Rivers Computer	
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	Three Rivers Computer	
	TITLE: MEM-C SUB DIR DRAWN BY: J.T. CHECKED BY: J.T.	PROJECT: 100-115015 DRAW NO: 50-115015-002 SHEET 2 OF 2

GATE UTILIZATION

PRQ-PCB-MEM-C

LEGEND

INPUT

OUTPUT

1, 2 - 3, 4

74S00 U251

1, 2-3 23
4, 5-6
10, 9-8 25
13, 12-11 12

74S04 U243

1-2
3-4 26
5-6 26
9-8 26
11-10 25
13-12

74S32 U259

1, 2-3
4, 5-6 25
10, 9-8 13
13, 12-11

74S74

U274

U272

1, 2, 3, 4-5, 6
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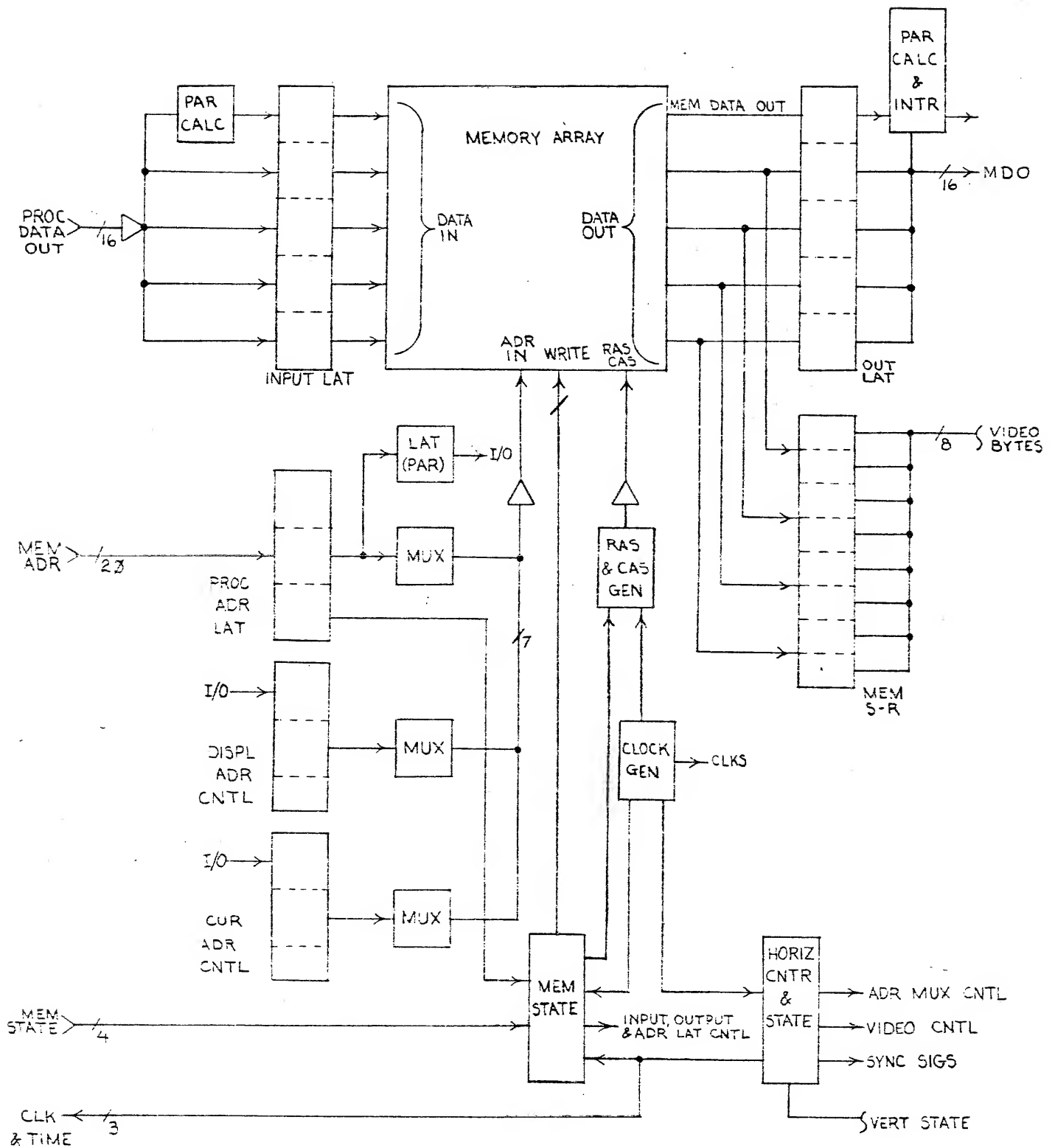
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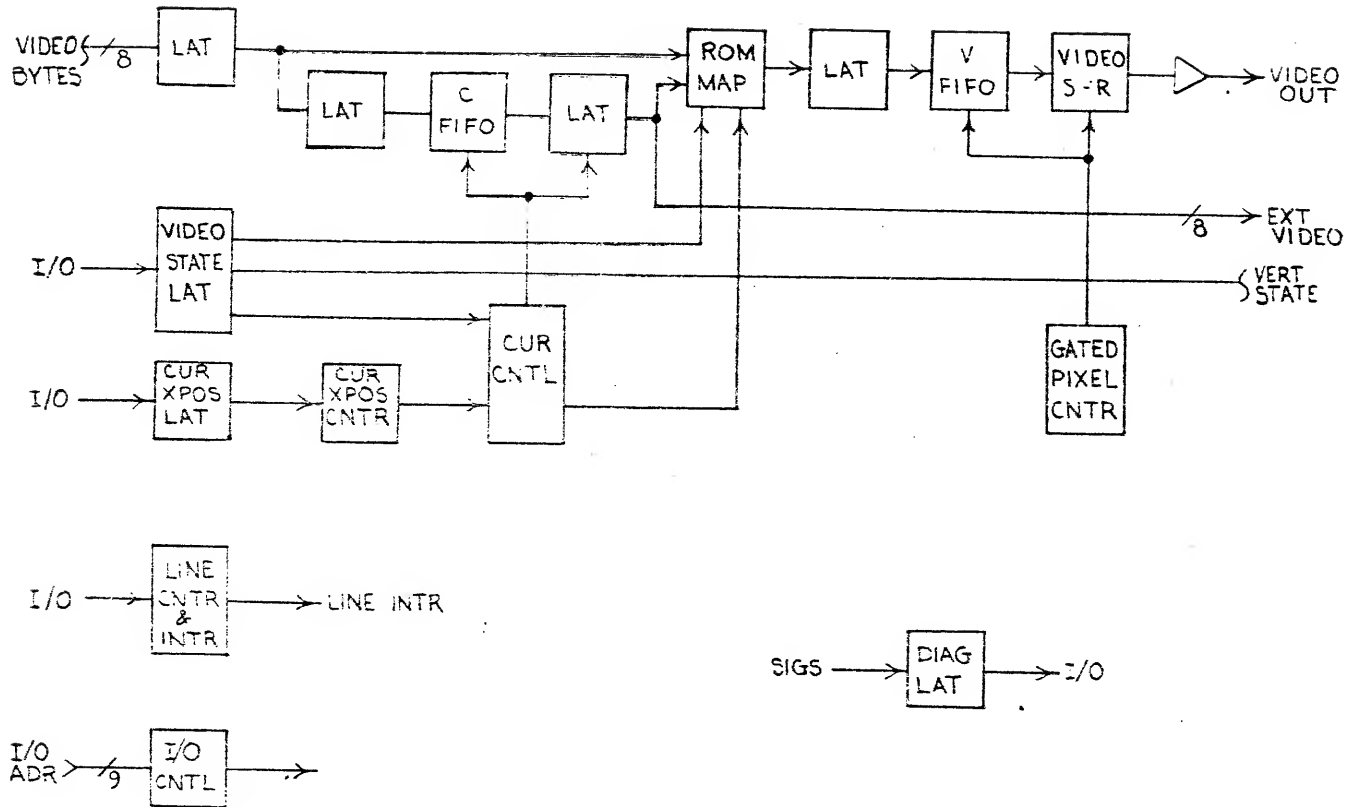


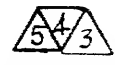
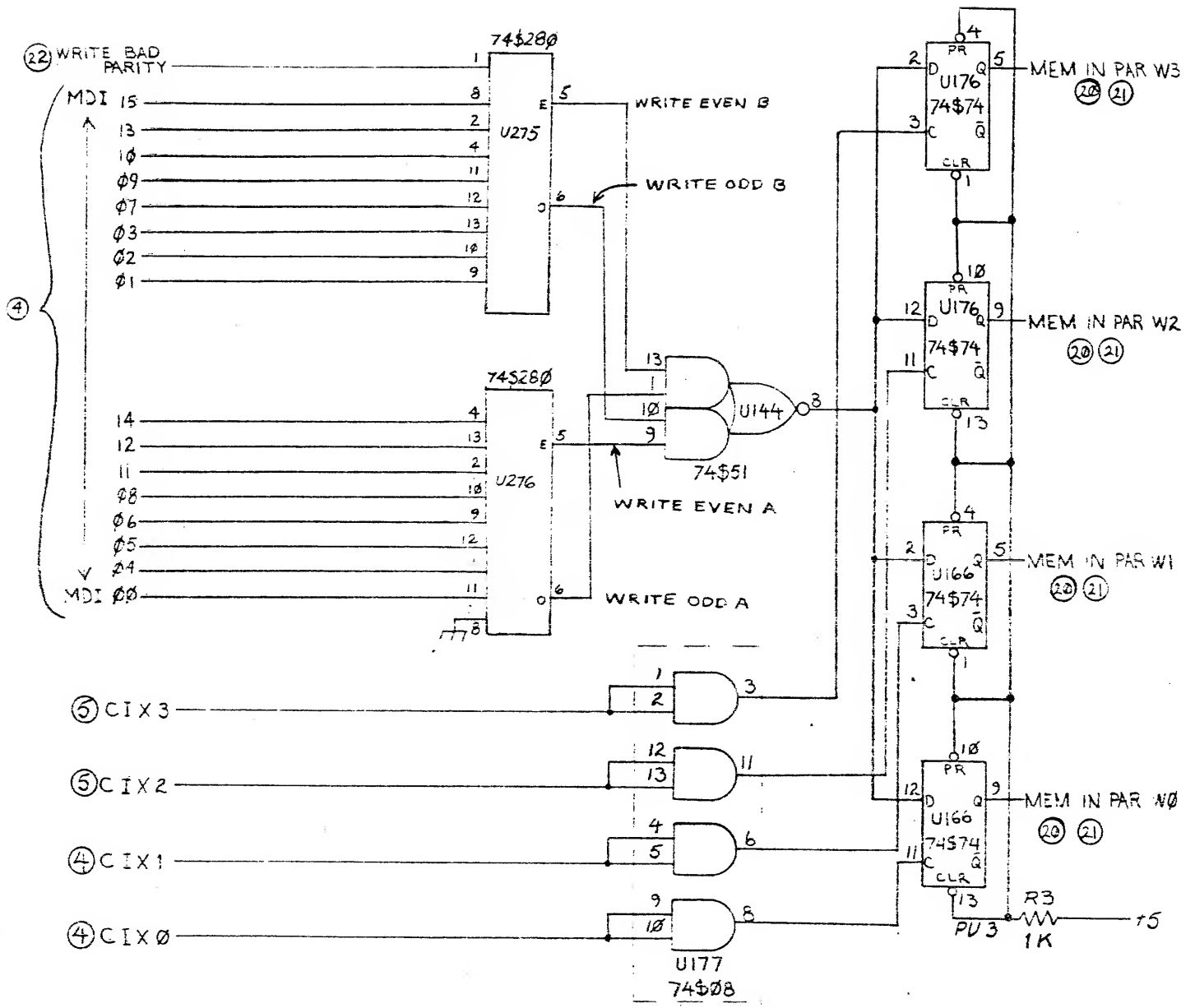
PERQ MEMORY (C) SCHEMATICS

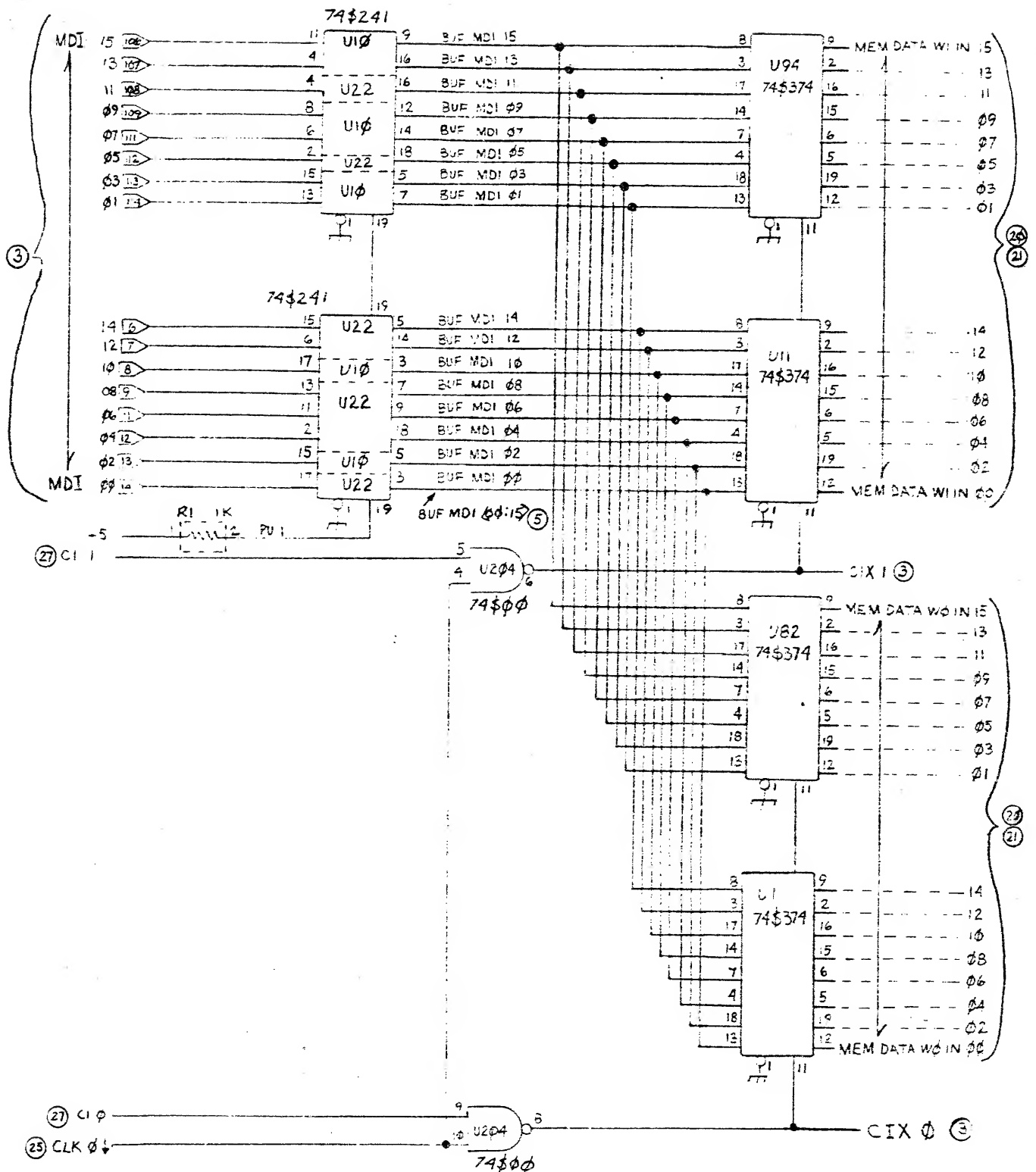
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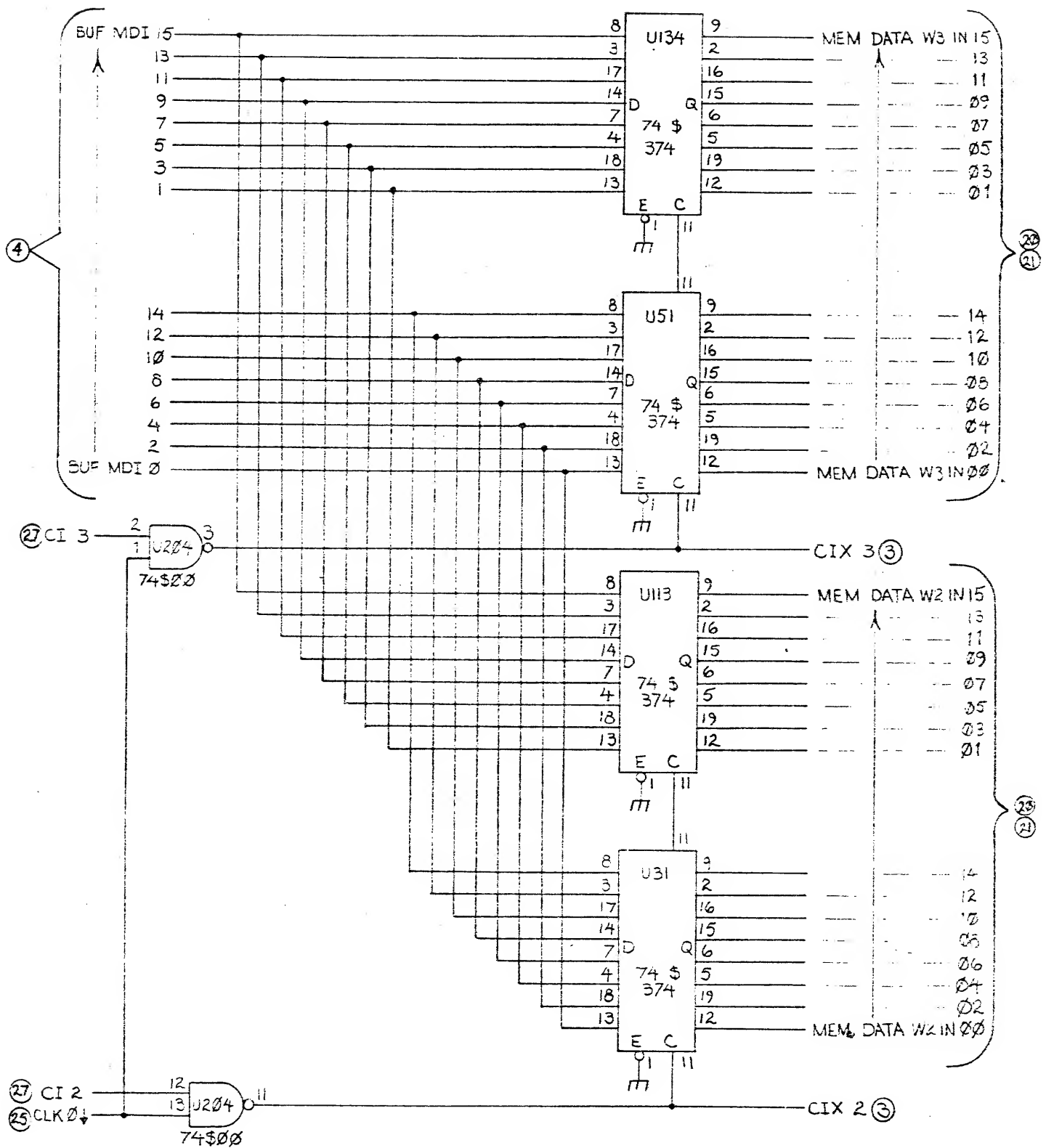
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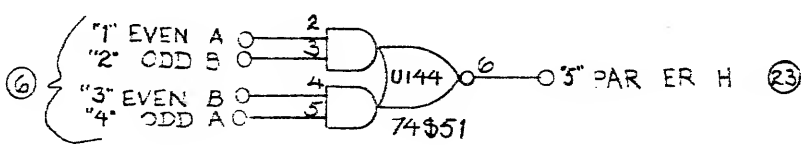
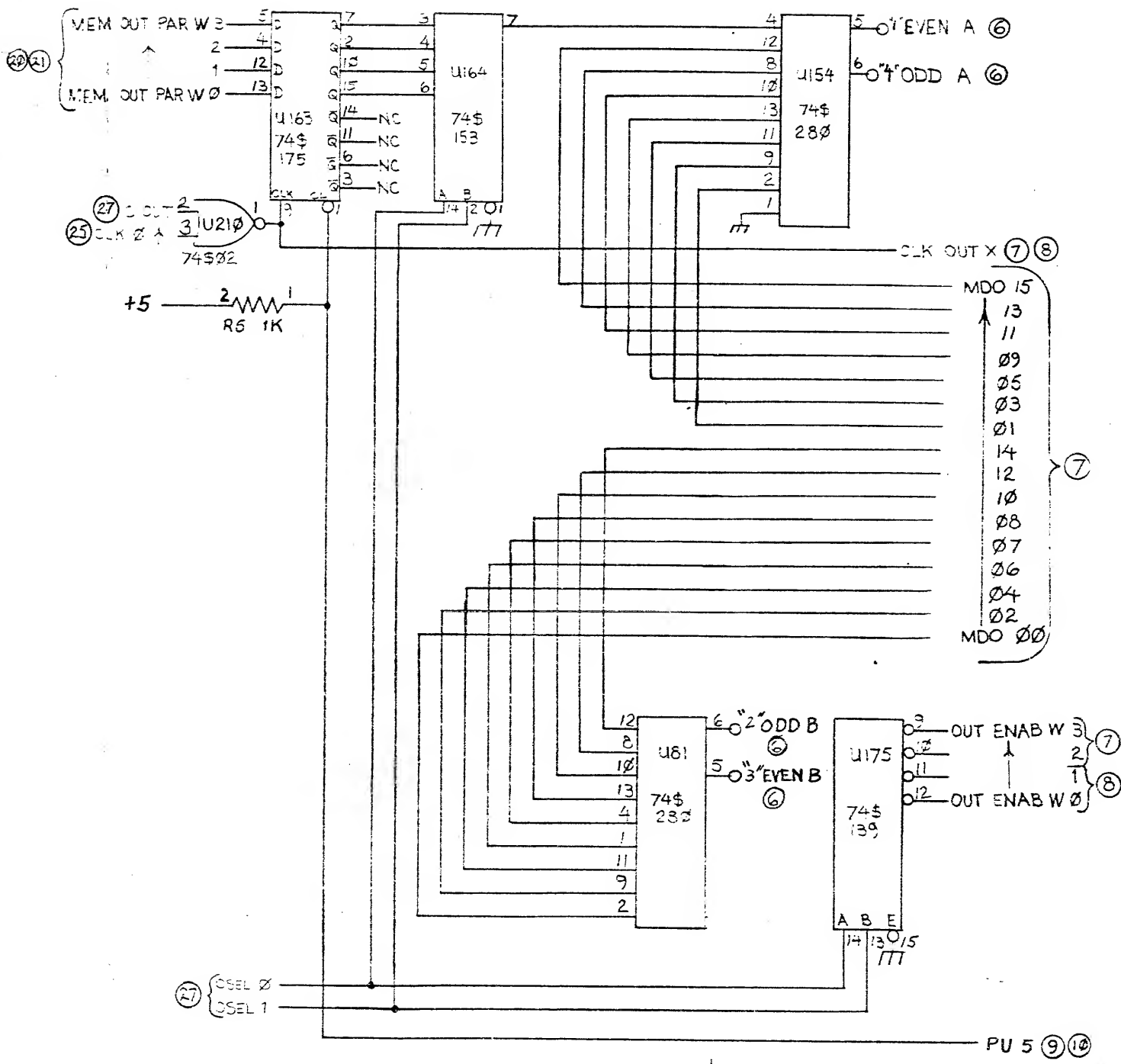
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Three Rivers Computer

DATA INPUT/OUTPUT

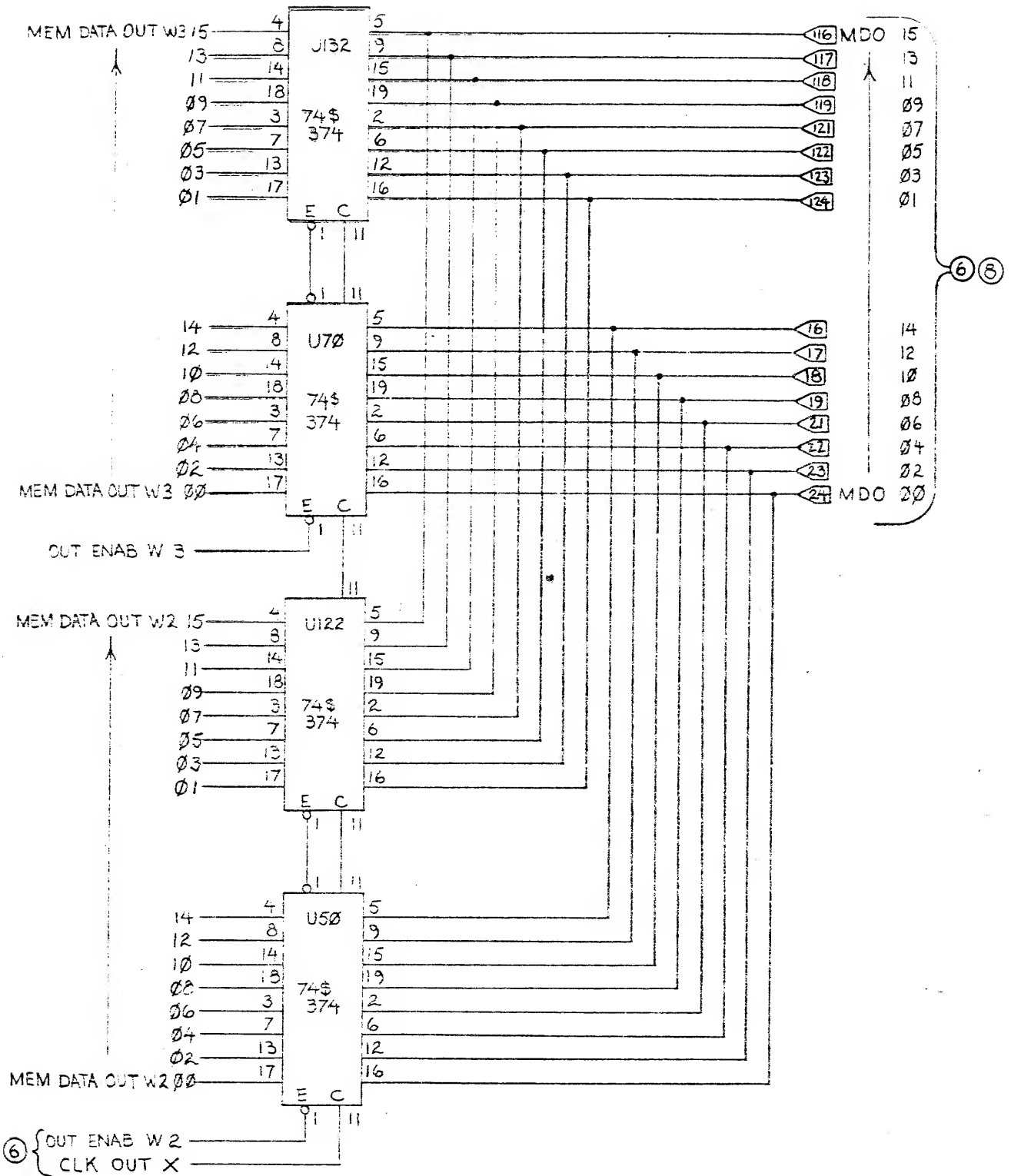
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30-1000 30-1000-2409-S-E-27



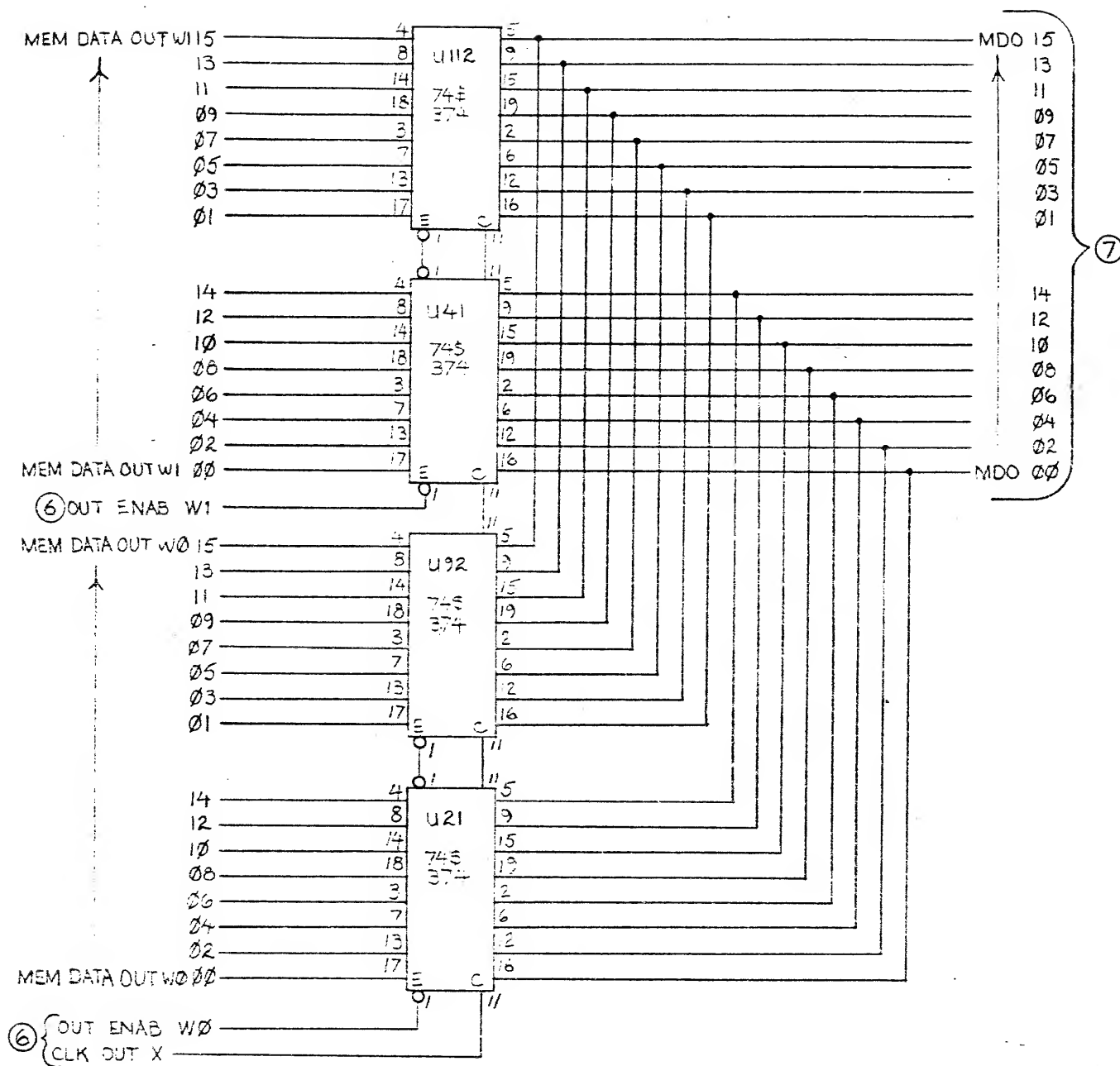
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 REV F 12/30/80
 REV E 7/17/80
 REV D 7/15/80
 REV C 5/16/80
 REV B 3/4/80

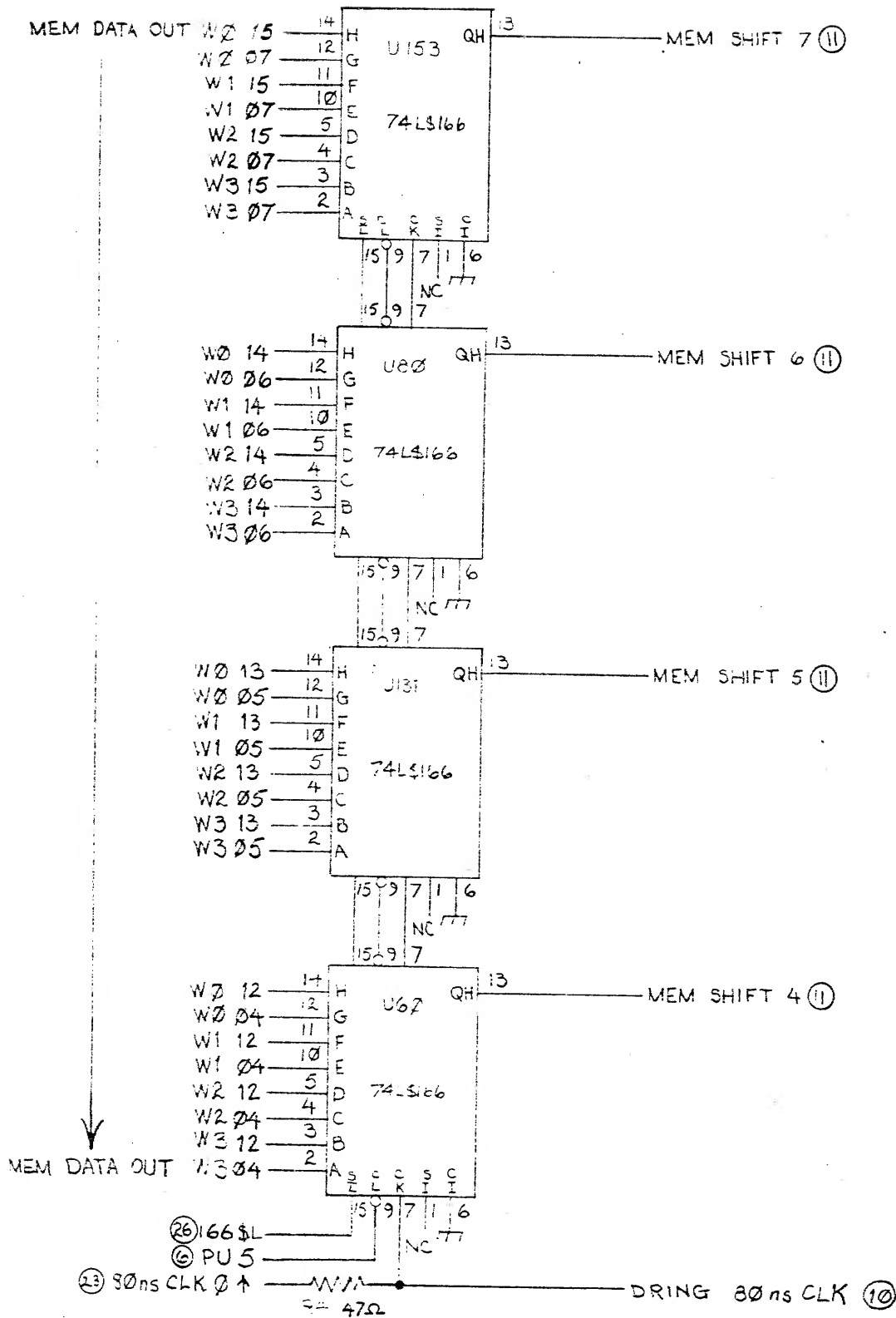
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DATA OUTPUT	PERQ-MEM-C		
DESIGNED BY	DESIGNED BY	PRQ-SC-0490-H	REV 6 - 27



REV B 12/22/20 RAC

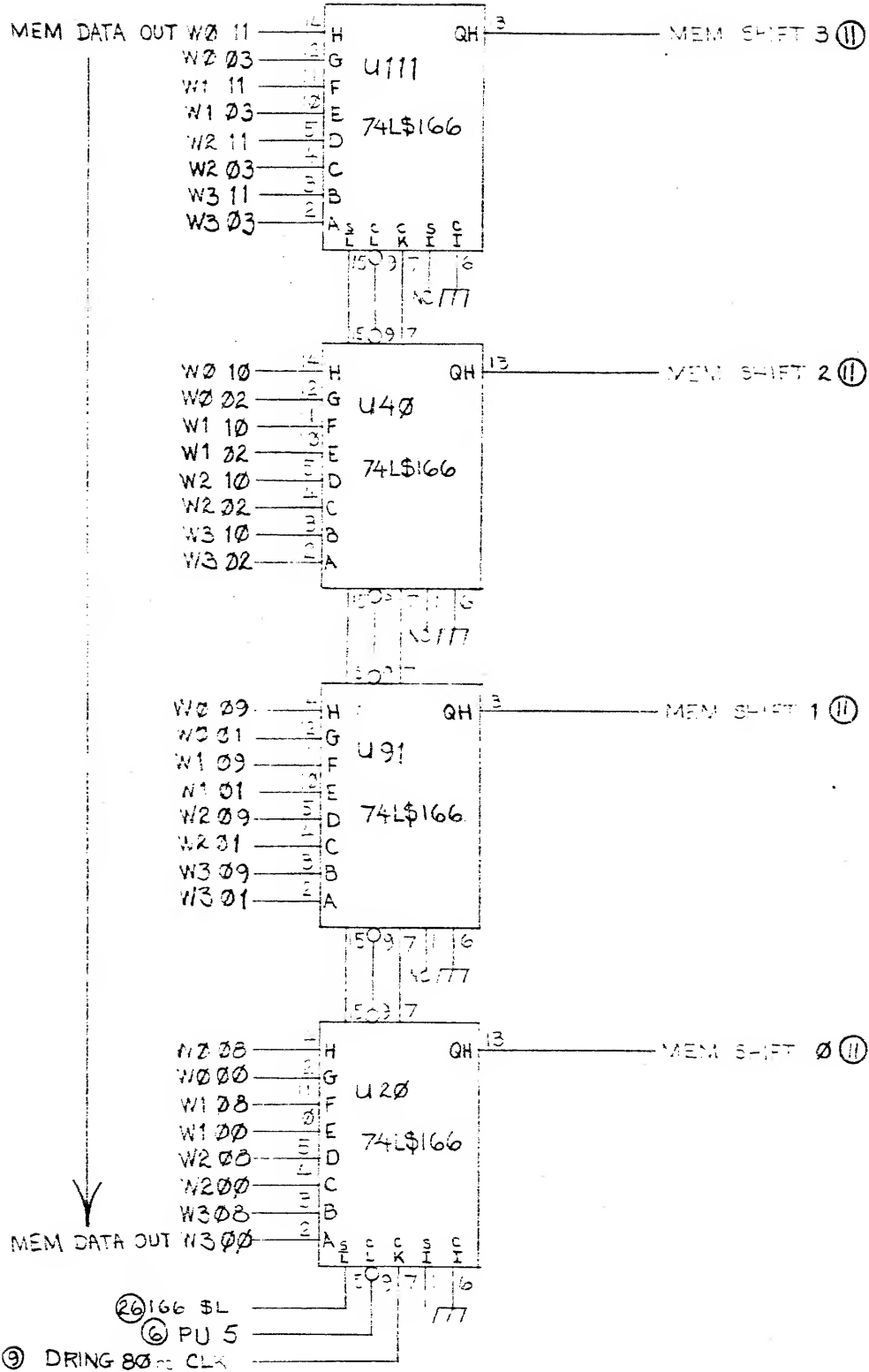
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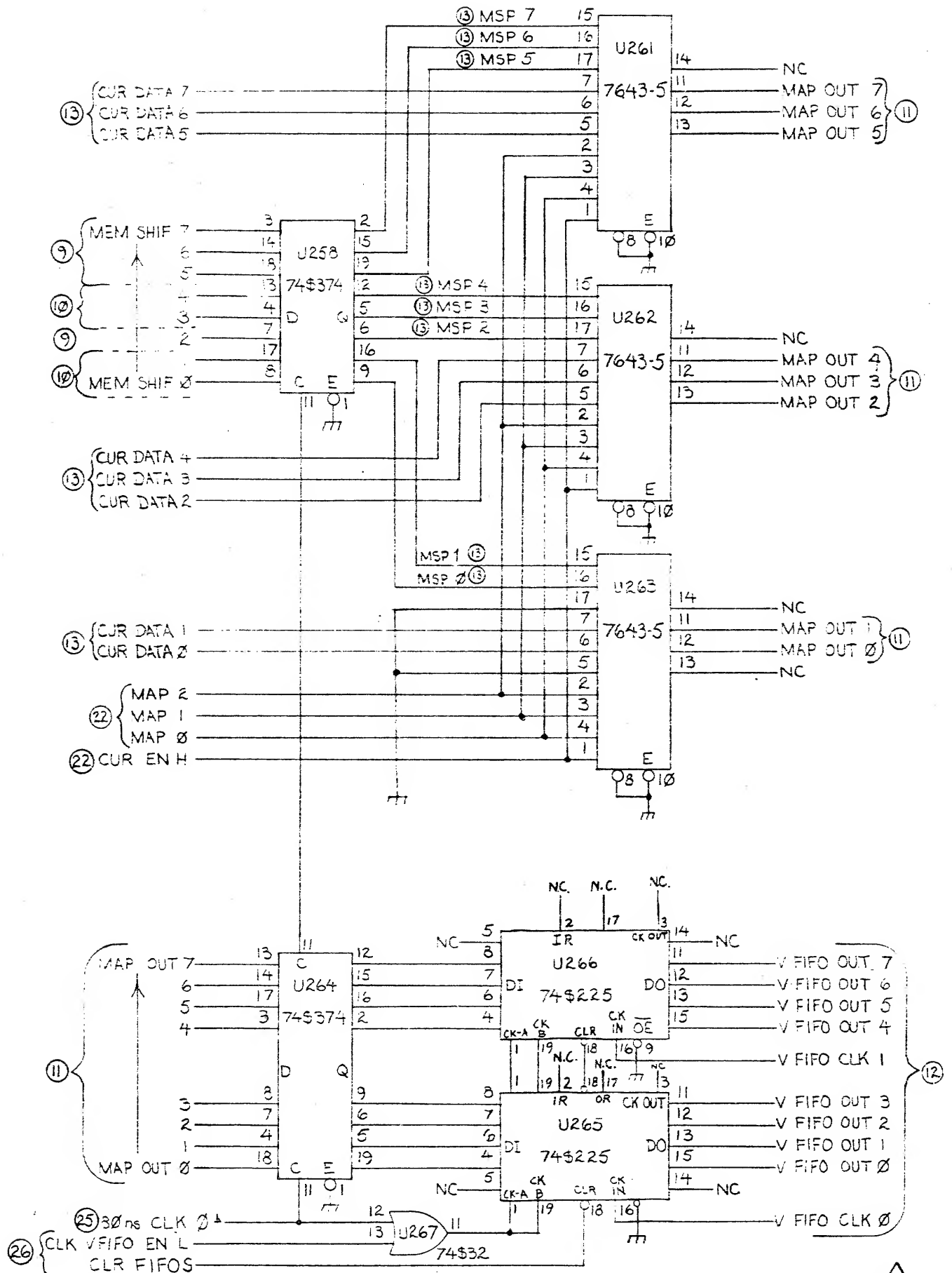
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Three Rivers Computer	
MEMO-1 SHIFTER	PERG-MEM
DESIGNED BY: J. J. J.	REV: 3C-0493F
DATE: 9-87	



REV. D 7/11/80
REV. C 5/18/80
REV. E 7/15/80
REV. B 3/4/80

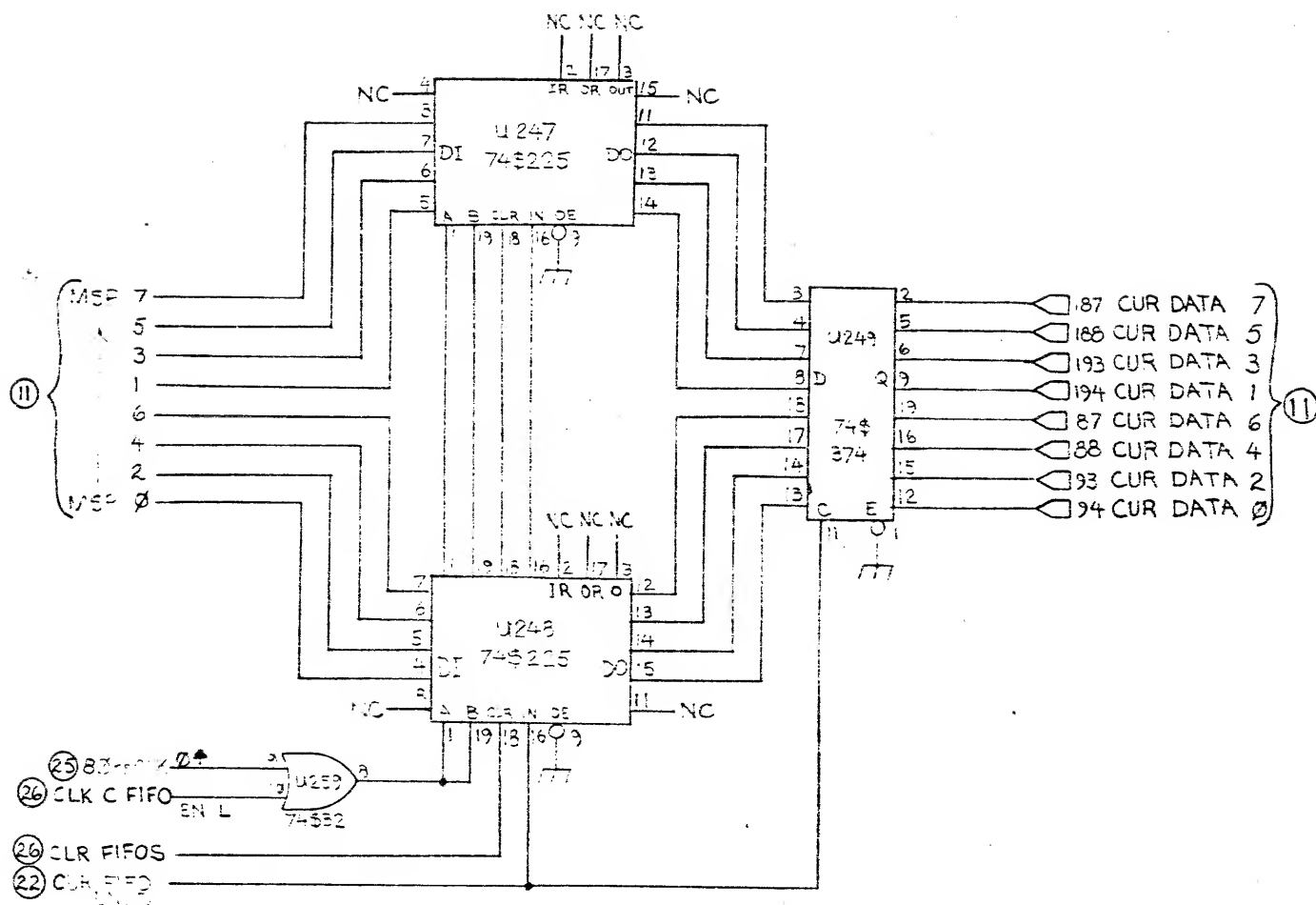
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1	2494 E		27

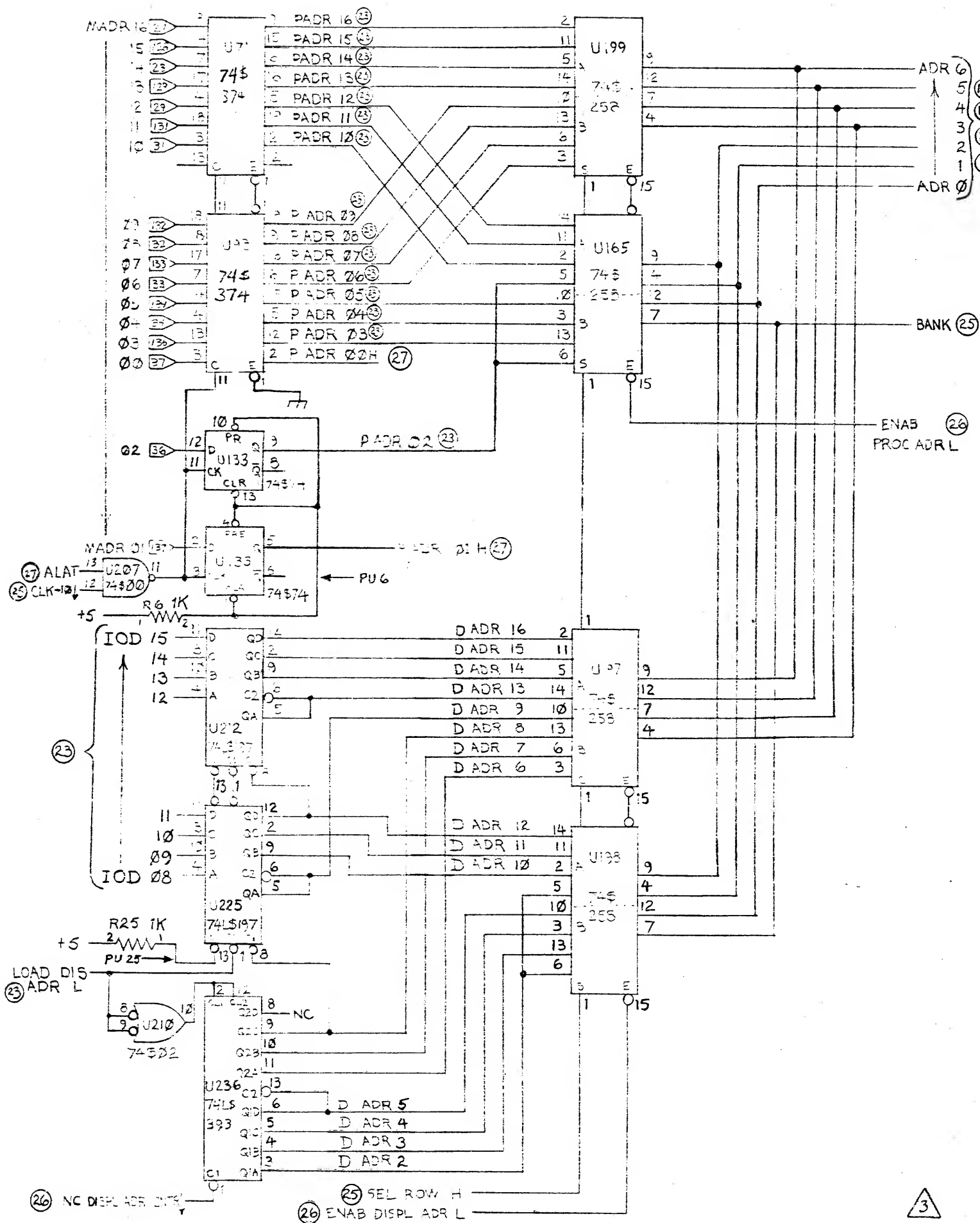


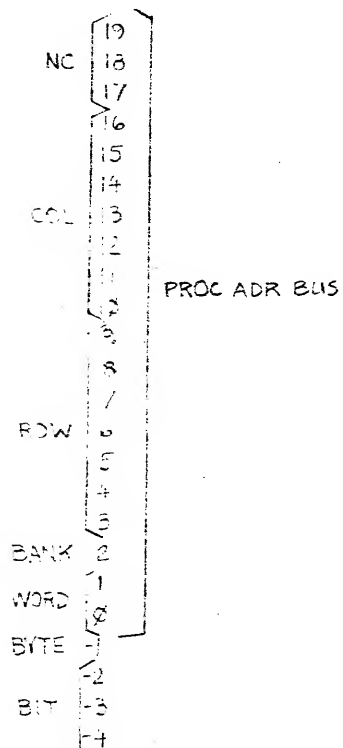
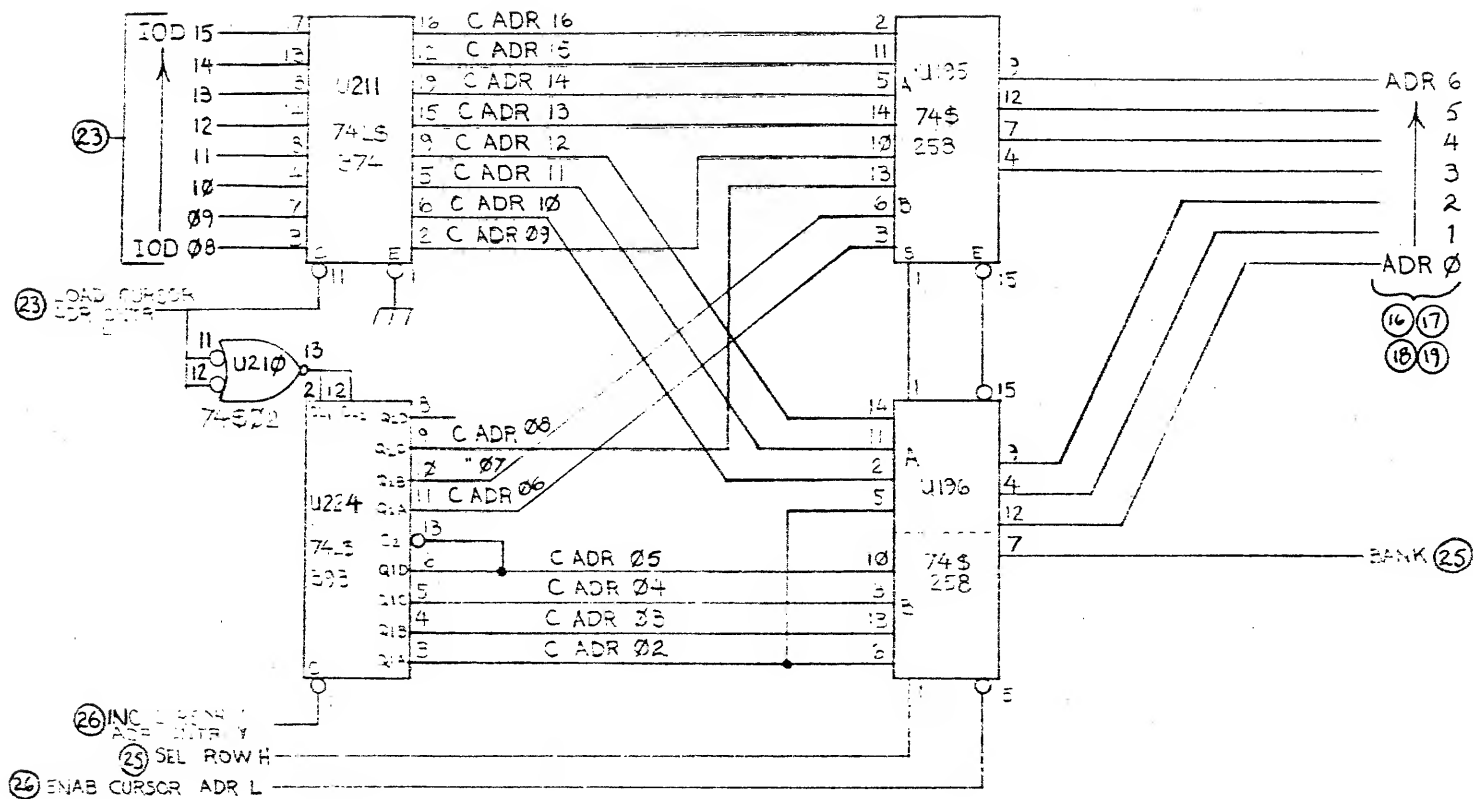
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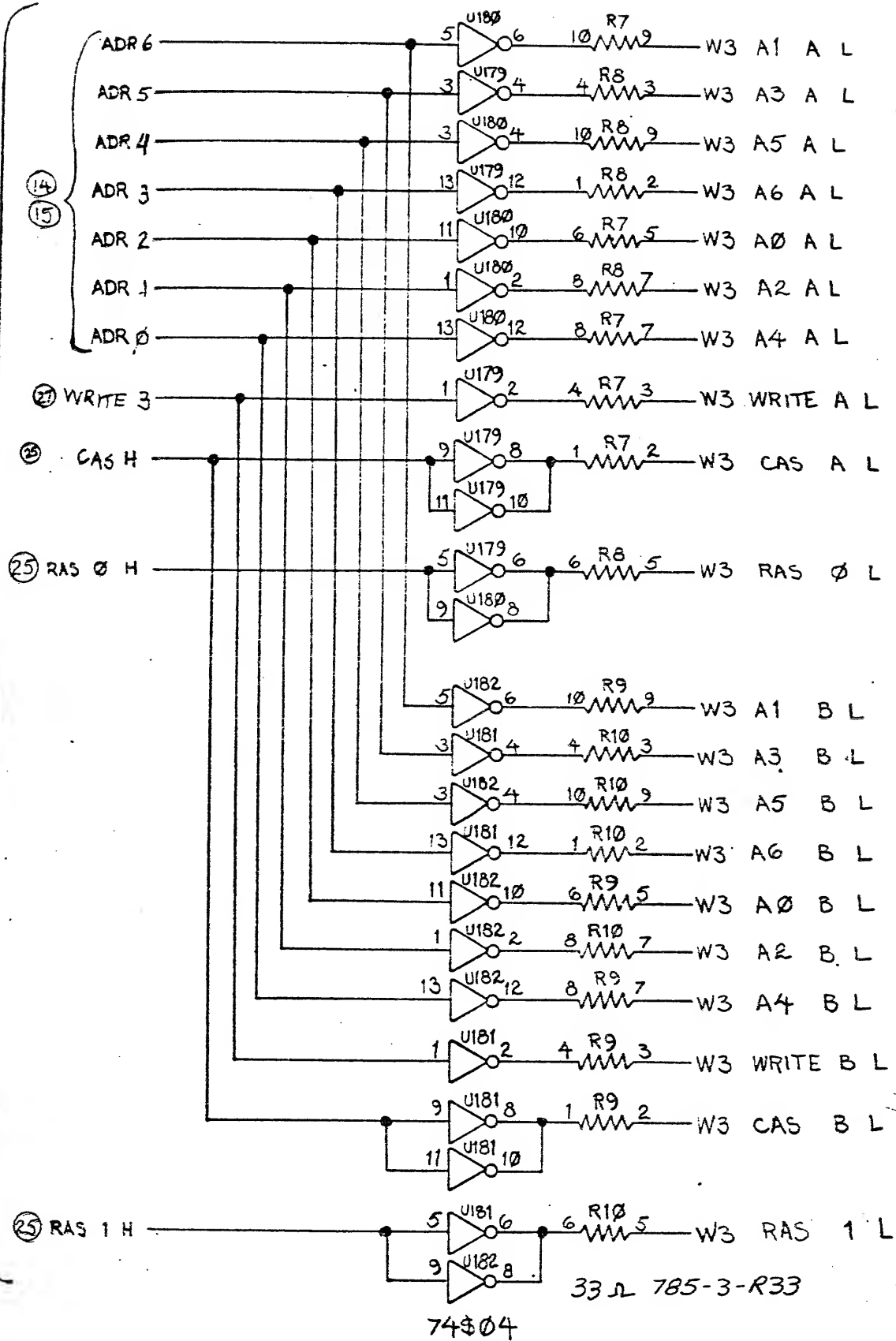
Three Rivers Computer			
VIDEO OUTPUT	PERIOD - MEM - CL	DATE	11 - 27
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY







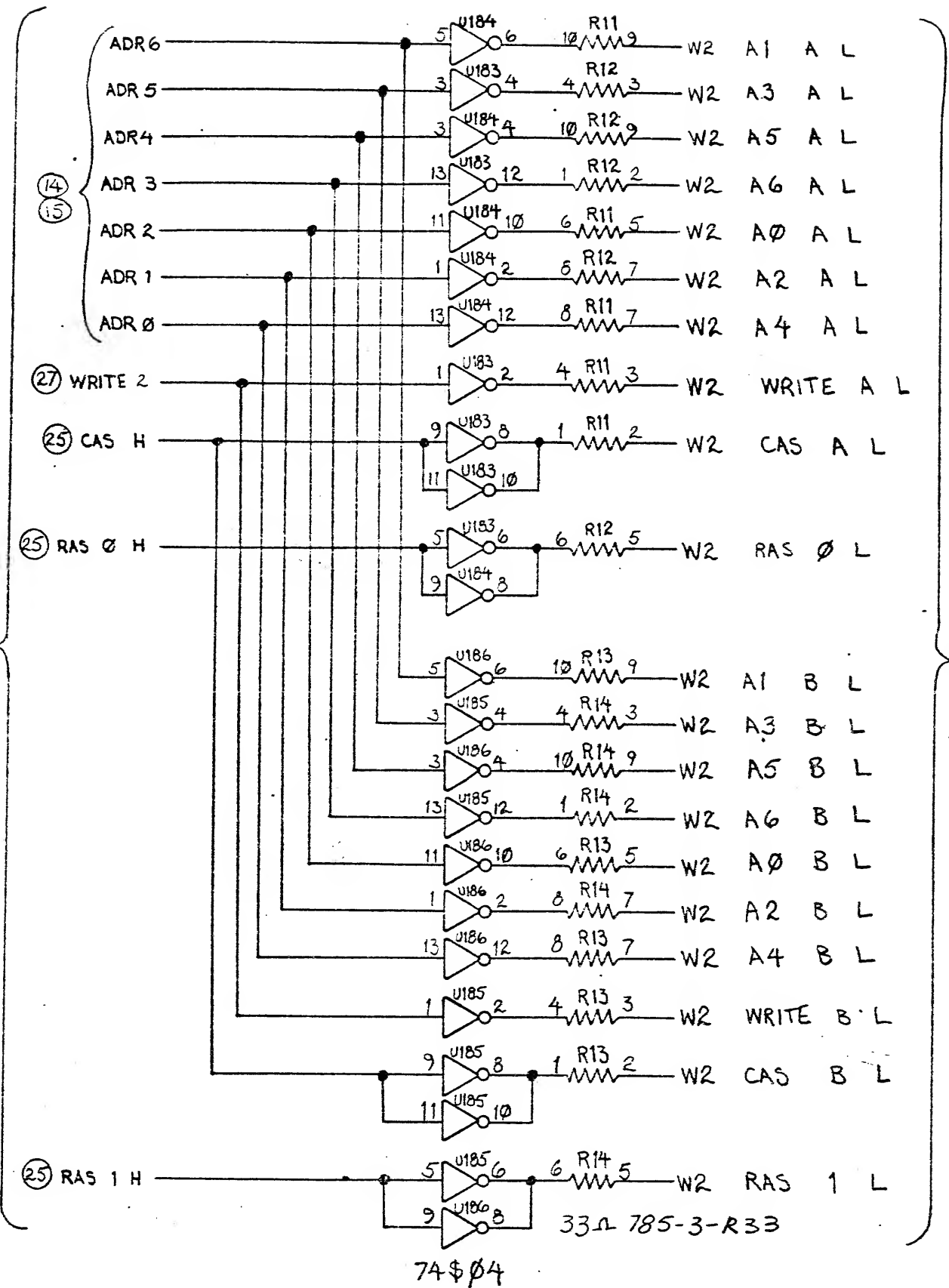
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20 21

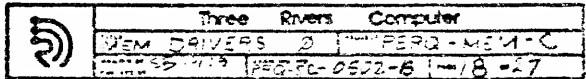
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REV B 3/14/80 SP

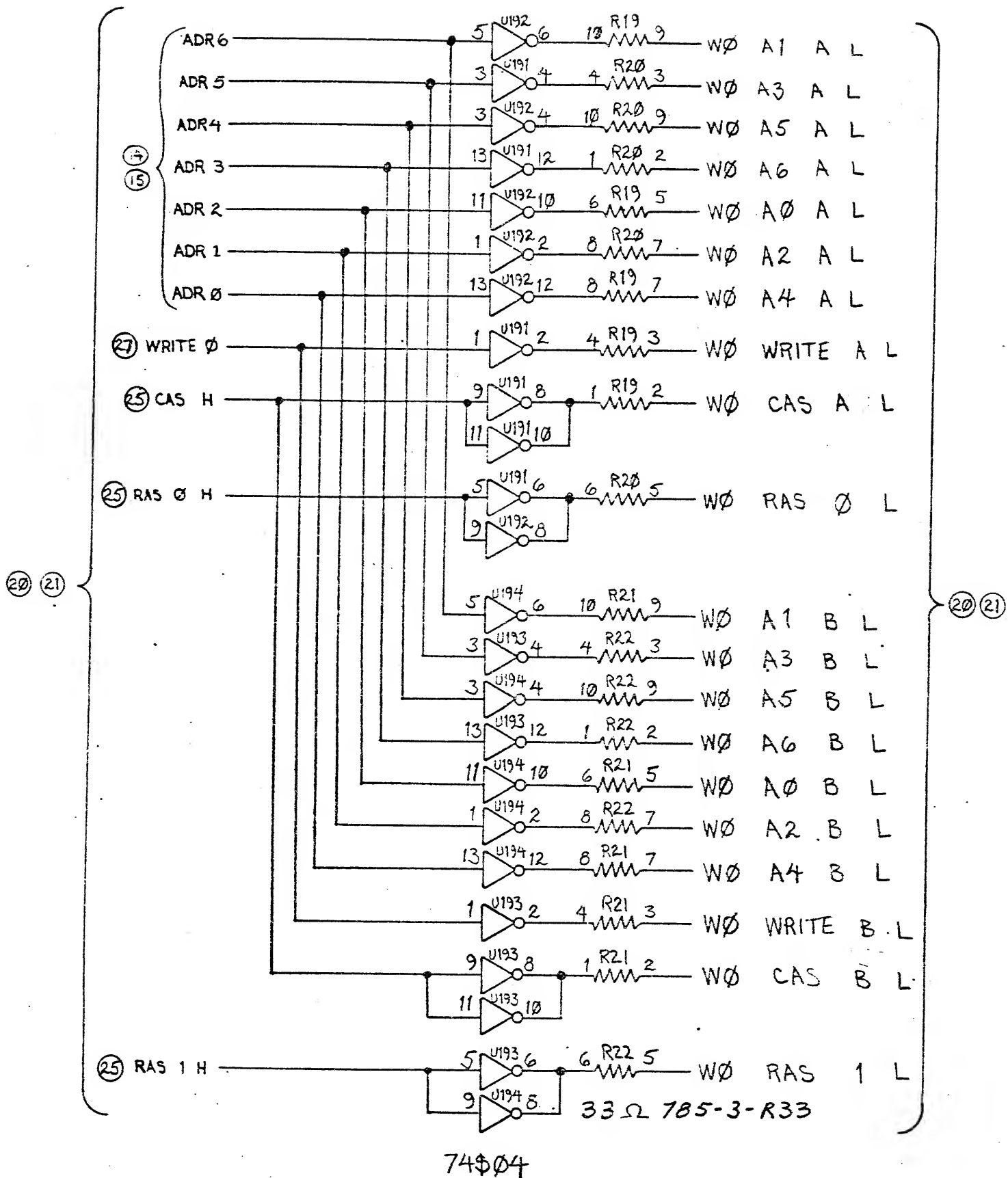
Three Rivers Computer			
MEM DRIVERS	3	PERQ-MEM-C	
65413	85413	0500	61-10-27



REVC 1/9/81 DIV
 REV.B 3/14/80 SP

Three Rivers Computer		
MEM DRIVERS 2	PERQ-MEM-C	
SS-173	PS23C-0501-C	17-27



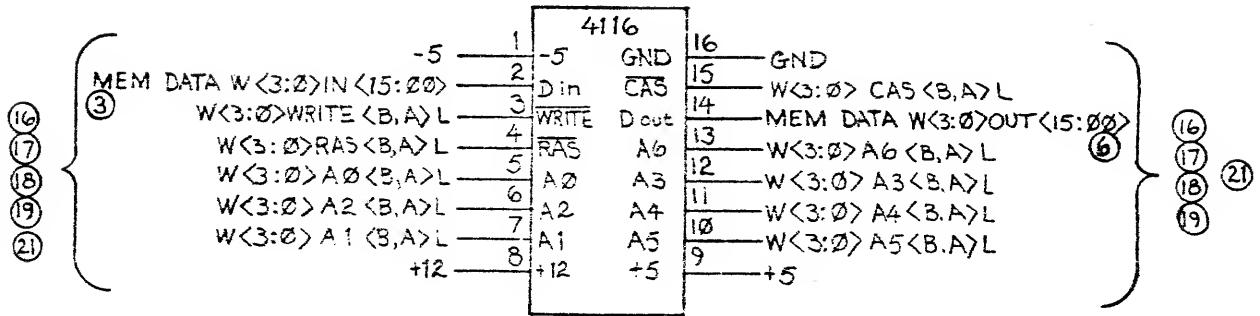
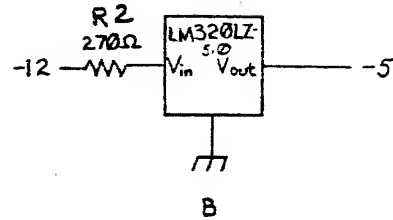
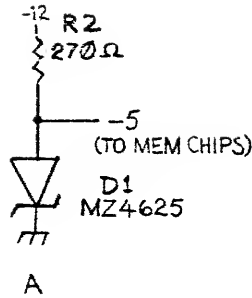


DIV REV C 1/25/81
REV.B 3/14/80



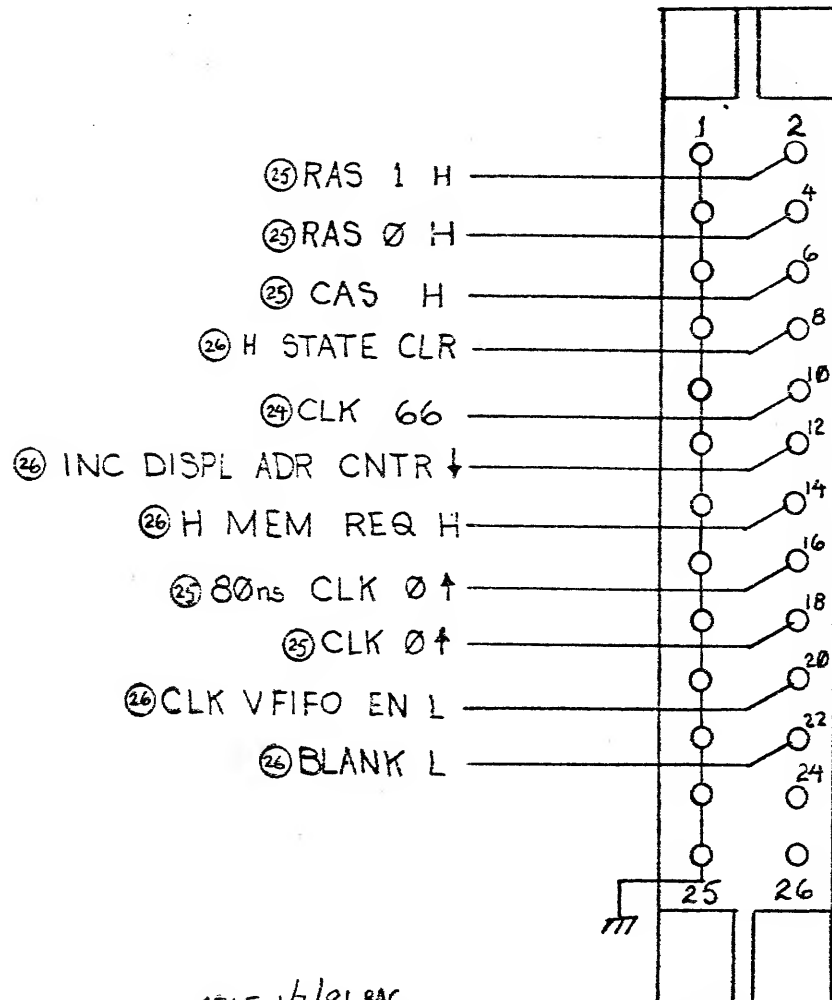
Three Rivers Computer		
MEM DRIVERS	1	PERQ-MEM-C
SD-475	1000	0503 C-19-27

-5 VOLTS PRODUCED BY CIRCUIT "A" OR "B"



NOTE:

SEE PAGE (21) FOR RAM ARRAY



REV E 1/7/81 RAC
REV D 12/22/80 RAC
REV C 7/17/80 SB
REV B 7/15/80 SB

Three Rivers Computer	
TYP RAM + JC	PEPQ-MEM-C
REV 1-1-82	REV 2-0-82
REV 3-0-82	REV 4-0-82

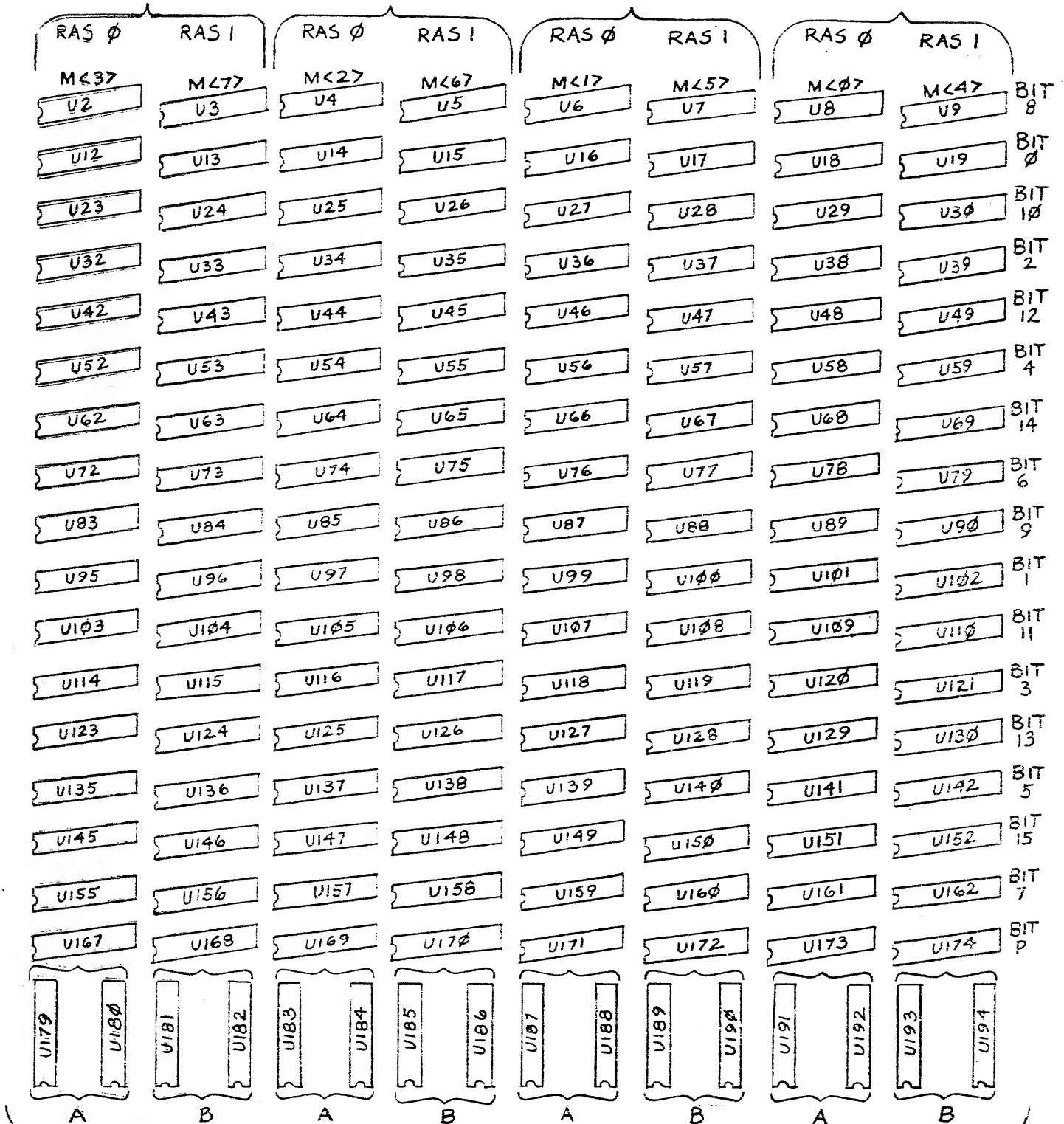
RAS 1 = BANK 1

WORD 3

WORD 2

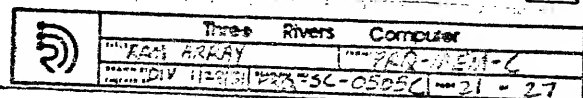
WORD 1

WORD 0




CAS, A<6:0>

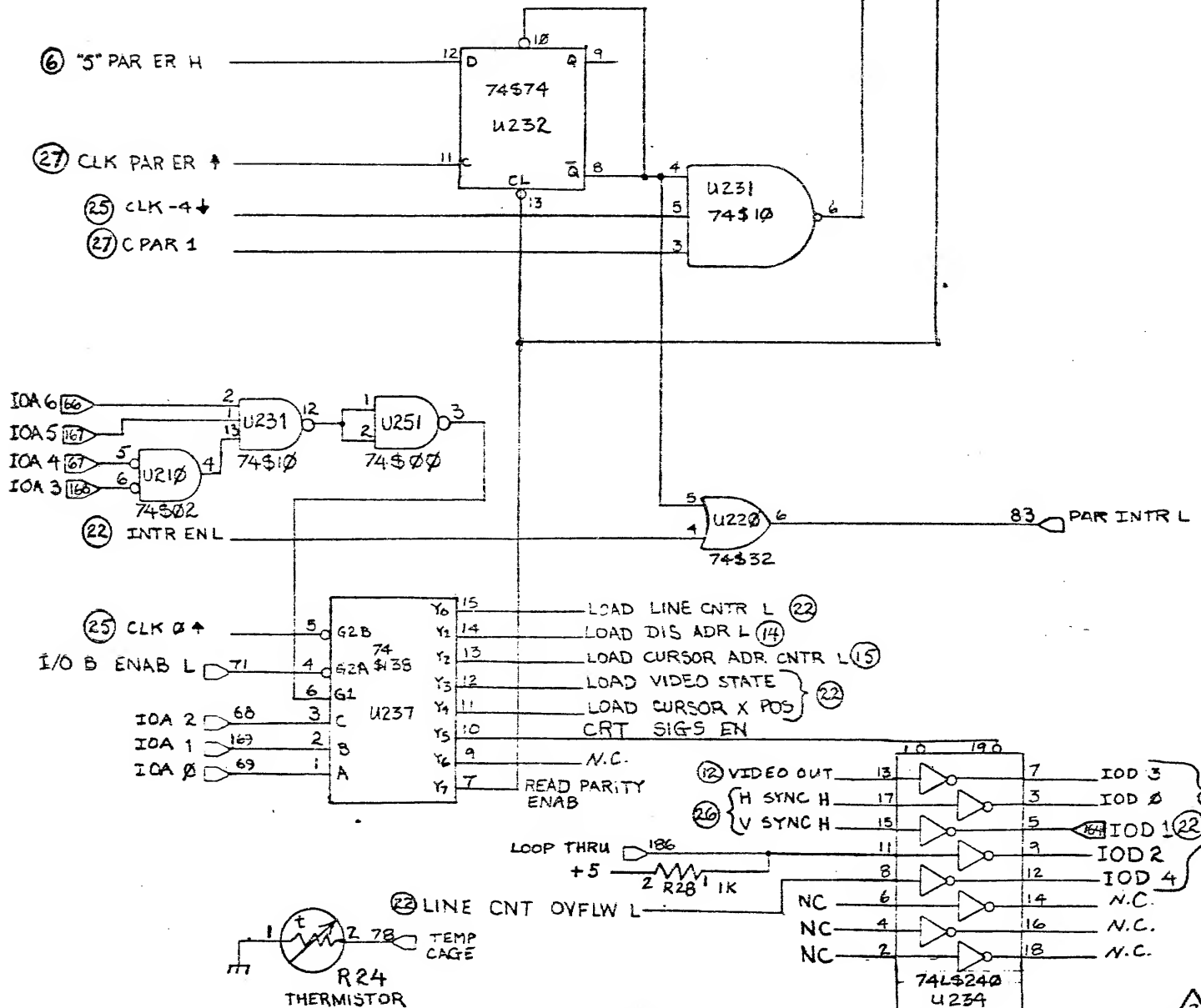
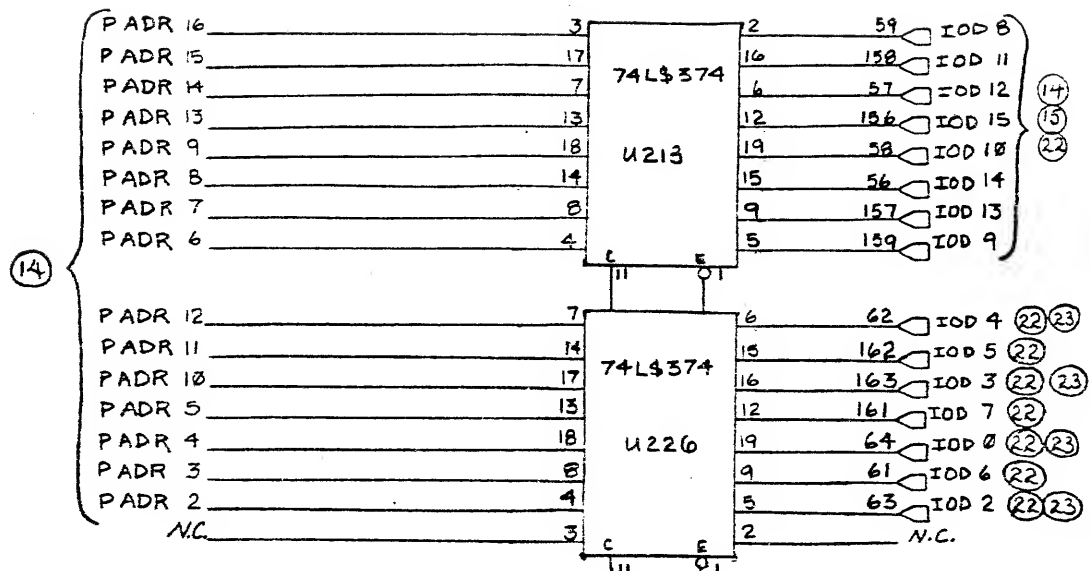
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REV B SB 3/14/80



3

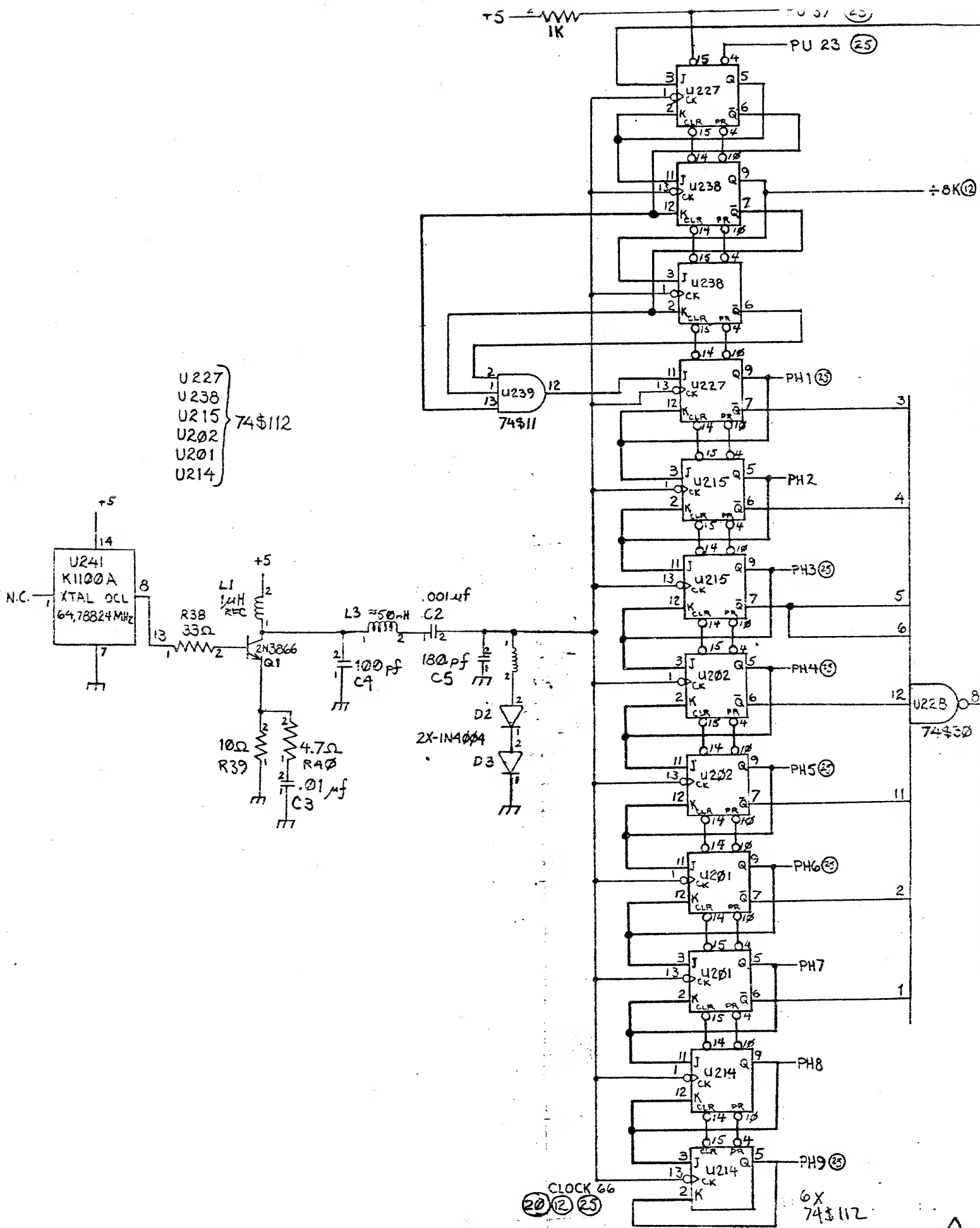


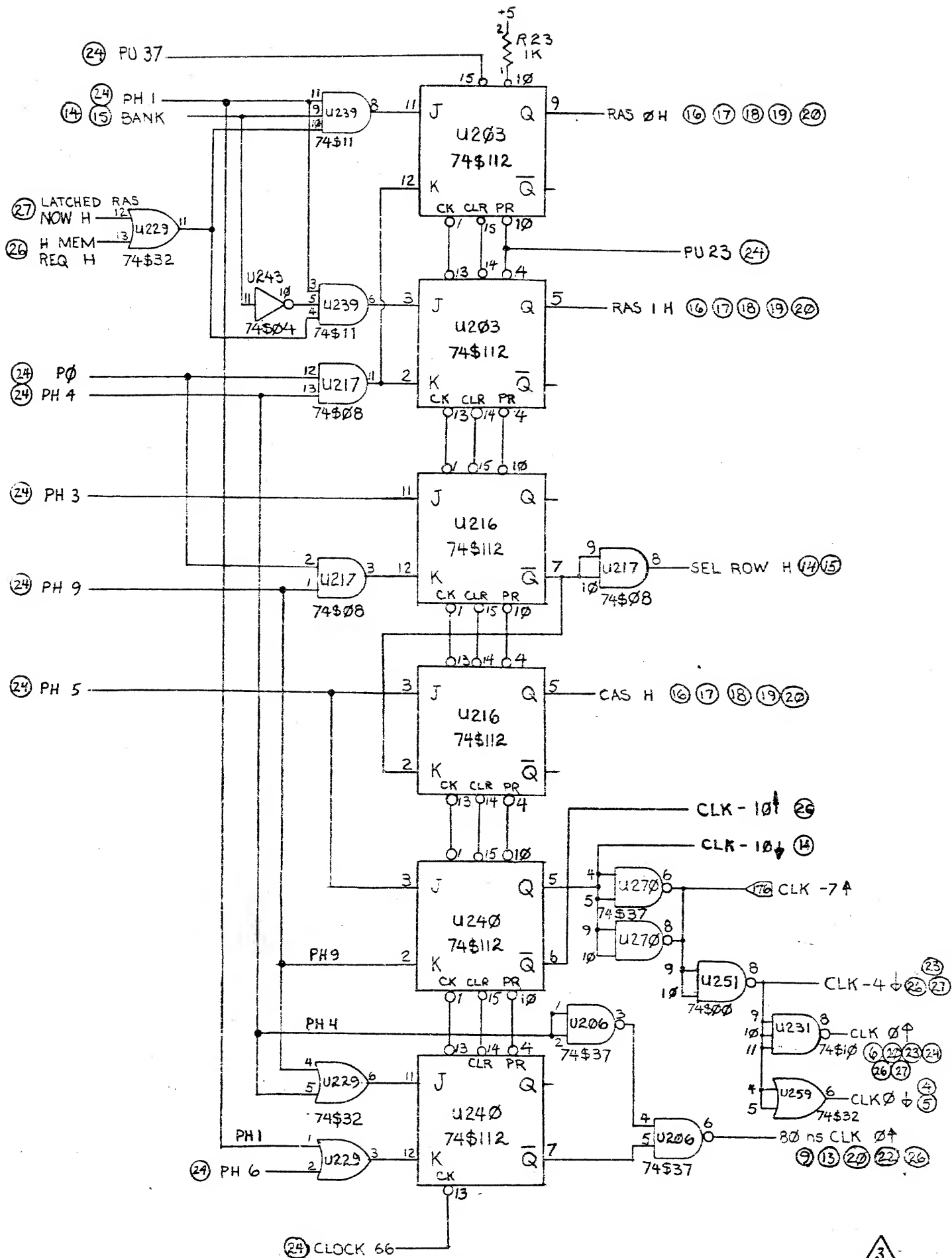
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	TITLE <u>I/O REGISTERS</u>		PROJECT <u>PER 2-MEM-C</u>
	DRAWN BY <u>CS</u> OF <u>11/15/88</u> <u>100-20-0506-A</u> <u>22-27</u>		



REV.F 7/15/80
 REV.E 5/16/80
 REV.D 5/9/80
 REV.C 4/8/80
 REV.B 3/14/80

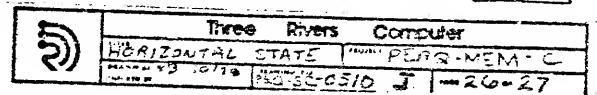
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PAP INTR	3C-0507-A1-23-27

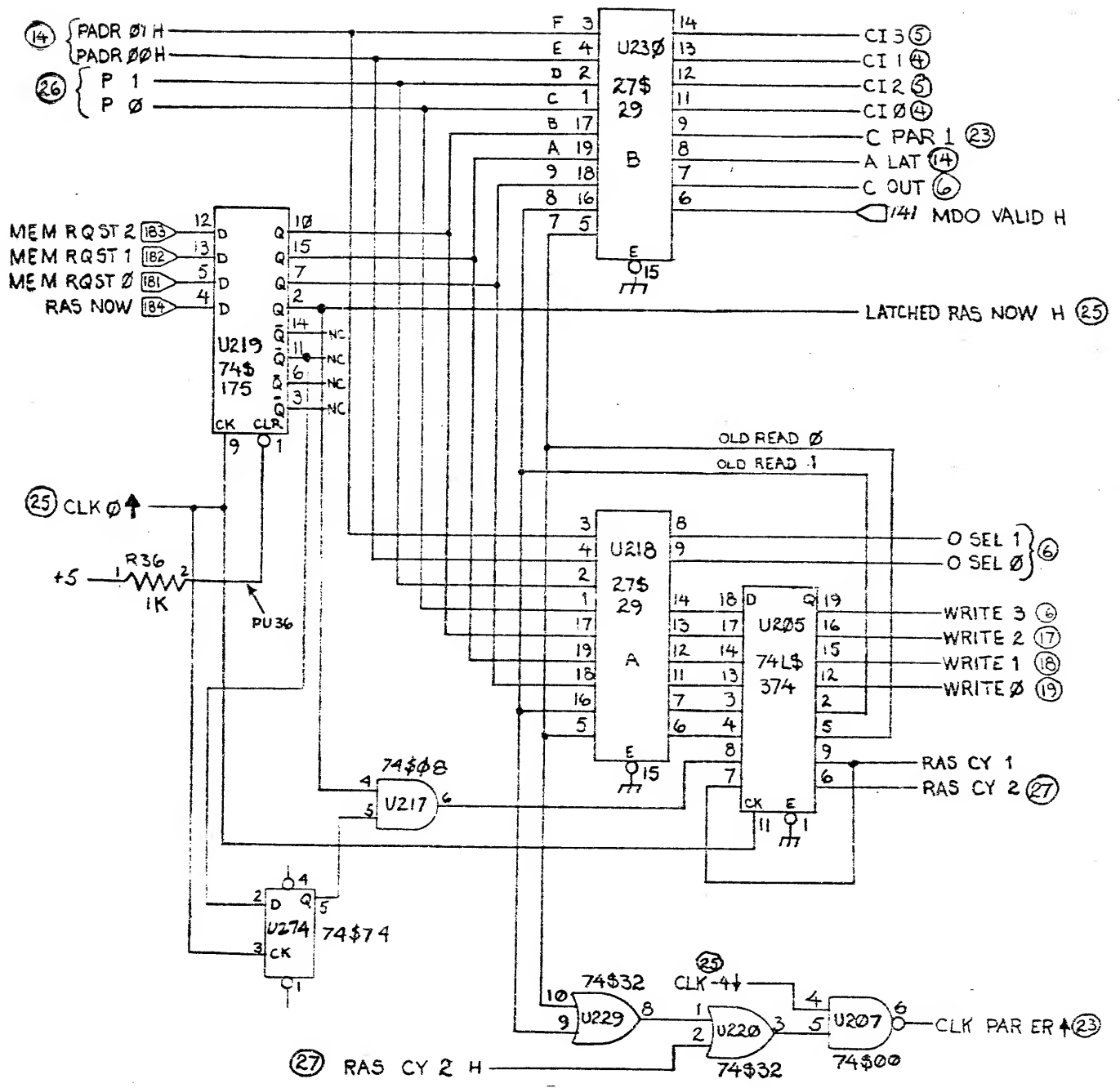




REV. F 12/16/80 T.T.
 REV. E 7/15/80 S.D.
 REV. D 7/11/80 P.D.
 REV. C 5/16/80 S.D.
 REV. B 3/14/80 P.D.

Tree Rivers Computer		
CLK GEN	PERQ - MEM - C	
DATE: 11/17/80	REV: 3C-0509	G-25-27





REV E 7/15/60
 REV D 5/16/60
 REV C 5/19/60
 REV B 5/18/60

Three Rivers Computer	
MEM STATE	PER 12-MEM-C
REV B 5/18/60	REV C 5/19/60
REV D 5/16/60	REV E 7/15/60